generating a selection signal for indicating selection between the identified upsell, change and a second upsell,

and the method further comprising:

if the selection signal indicates selection of the second upsell,

determining a second upsell price corresponding to the second upsell, and

setting the required payment amount to be equal to the rounded price if the calculated round-up amount corresponds to the second upsell price.

129. The method of claim 125, further comprising:

printing a voucher.

130. The method of claim 129, further comprising:

printing an identifier on the voucher.

131. The method of claim 129, further comprising:

maintaining an identifier database;

generating a unique identifier;

storing the unique identifier in the identifier database; and

printing the unique identifier on the voucher.

132. The method of claim 129, further comprising:

generating a date identifier in dependence on a date of the purchase; and

printing the date identifier on the voucher.

133. The method of claim 125, further comprising:

maintaining a database of offered upsells;

storing the round-up amount in the database of offered upsells;

storing the identified upsell in the database of offered upsells; and

storing the selection signal in the database of offered upsells.

134. The method of claim 133, further comprising:

storing a date of the purchase in the database of offered upsells.

135. The method of claim 125, wherein the upsell comprises a game entry.

136. The method of claim 135, further comprising:

maintaining a game database;

generating a unique identifier;

storing the unique identifier in the game database; and

storing the round-up amount in the game database.

137. The method of claim 125, further comprising:

if the selection signal indicates selection of the identified upsell, storing signals indicative of the identified upsell in a customer record, thereby associating the identified upsell with a customer.

138. The method of claim 137, further comprising:

storing signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell; and

storing signals indicative of a second customer identifier for identifying a second customer who receives the donated upsell.

139. The method of claim 137, further comprising:

storing signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell;

storing signals indicative of a plurality of customer identifiers for identifying a plurality of customers; and

selecting at least one of the plurality of customer identifiers, thereby selecting at least one customer who receives the donated upsell.

140. The method of claim 125, further comprising:

storing a preferred-upsell signal indicative of an upsell for each of a plurality of customers.

141. The method of claim 140, wherein the step of generating the selection signal comprises accessing the stored preferred-upsell signals, and generating the selection signal in dependence thereupon.

142. The method of claim 124, wherein the step of identifying the upsell comprises identifying a plurality of upsells in the database which correspond to the compared upsell

price, and wherein the step of outputting comprises outputting signals indicative of at least one of the plurality of identified upsells.

143. The method of claim 142, further comprising:

generating a selection signal for indicating selection between at least one of the plurality of identified upsells and change.

144. The method of claim 142, further comprising:

sorting the plurality of identified upsells, thereby arranging a first upsell to be ordered before a second upsell.

145. The method of claim 144, wherein the step of outputting comprises outputting signals indicative of the first upsell.

146. The method of claim 145, further comprising:

generating a selection signal for indicating selection between the identified upsell and change; and

outputting signals indicative of the second upsell if the selection signal does not indicate selection of the first upsell.

147. The method of claim 144, wherein the step of sorting comprises sorting the plurality of identified upsells according to a cost of each identified upsell.

148. The method of claim 124, further comprising:

generating a purchase condition,

and wherein the step of maintaining a database comprises:

maintaining a database of at least one upsell price and a corresponding upsell and at least one corresponding upsell condition,

and wherein the step of identifying comprises:

identifying at least one upsell in the database which corresponds to the compared upsell price and the purchase condition.

149. The method of claim 124, wherein the step of generating a rounded price comprises generating a rounded price in dependence on a whole number which is greater than the purchase price.

150. The method of claim 149, wherein the step of generating a rounded price comprises generating a rounded price in dependence on the smallest whole number which is greater than the purchase price.

151. The method of claim 124, wherein the step of generating a rounded price comprises generating a rounded price in dependence on a multiple of ¼ which is greater than the purchase price.

152. An apparatus for determining an upsell of a purchase, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a required payment amount,

a database of at least one upsell price and a corresponding upsell, and

a program for controlling the processor; and

the processor operative with the program to

generate a purchase price of the purchase,

set the required payment amount to be equal to the purchase price,

generate a rounded price,

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price,

compare the calculated round-up amount with at least one of the upsell prices in the database, and

if the calculated round-up amount corresponds to a compared upsell price,

identify at least one upsell in the database which corresponds to the compared upsell price, and

output signals indicative of the identified upsell.

153. The apparatus of claim 152, wherein the processor is further operative with the program to generate a selection signal for indicating selection between the identified upsell and change.

154. The apparatus of claim 153, wherein the database includes a plurality of upsell prices and corresponding upsells, and wherein the processor is further operative with the program to identify a second upsell in the database which corresponds to the compared upsell if the selection signal indicates selection of change.

155. The apparatus of claim 152, wherein the processor is further operative with the program to:

generate a selection signal for indicating selection between the identified upsell, change and a second upsell, and

if the selection signal indicates selection of the second upsell, determine a second upsell price corresponding to the second upsell.

156. The apparatus of claim 153, further comprising:

a printer connected to the processor for printing a voucher.

157. The apparatus of claim 156, wherein the processor is further operative with the program to drive the printer to print an identifier on the voucher.

158. The apparatus of claim 156, wherein the storage device further stores an identifier database; and

wherein the processor is further operative with the program to:

generate a unique identifier;

store the unique identifier in the identifier database; and

drive the printer to print the unique identifier on the voucher.

159. The apparatus of claim 156, wherein the processor is further operative with the program to:

generate a date identifier in dependence on a date of the purchase; and

drive the printer to print the date identifier on the voucher.

160. The apparatus of claim 153, wherein the storage device further stores a database of offered upsells;

and wherein the processor is further operative with the program to:

store the round-up amount in the database of offered upsells;

store the identified upsell in the database of offered upsells; and

store the selection signal in the database of offered upsells.

161. The apparatus of claim 160, wherein the processor is further operative with the program to store a date of the purchase in the database of offered upsells.

162. The apparatus of claim 153, wherein the upsell comprises a game entry.

163. The apparatus of claim 162, wherein the storage device further stores a game database, and

wherein the processor is further operative with the program to:

generate a unique identifier;

store the unique identifier in the game database; and

store the round-up amount in the game database.

164. The apparatus of claim 153, wherein the storage device further stores a customer record, and wherein the processor is further operative with the program to:

if the selection signal indicates selection of the identified upsell, store signals indicative of the identified upsell in the customer record, thereby associating the identified upsell with a customer.

165. The apparatus of claim 164, wherein the storage device further stores:

signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell; and

signals indicative of a second customer identifier for identifying a second customer who receives the donated upsell.

166. The apparatus of claim 164, wherein the storage device further stores:

signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell; and

signals indicative of a plurality of customer identifiers for identifying a plurality of customers;

and wherein the processor is further operative with the program to select at least one of the plurality of customer identifiers, thereby selecting at least one customer who receives the donated upsell.

167. The apparatus of claim 153, wherein the storage device further stores a preferred-upsell signal indicative of an upsell for each of a plurality of customers.

168. The apparatus of claim 167, wherein the processor is further operative with the program to access the stored preferred-upsell signals, and generate the selection signal in dependence thereupon.

169. The apparatus of claim 152, wherein the processor is further operative with the program to identify a plurality of upsells in the database which correspond to the compared upsell price.

170. The apparatus of claim 169, wherein the processor is further operative with the program to:

generate a selection signal for indicating selection between at least one of the plurality of identified upsells and change.

171. The apparatus of claim 169, wherein the processor is further operative with the program to:

sort the plurality of identified upsells, thereby arranging a first upsell to be ordered before a second upsell.

172. The apparatus of claim 171, wherein the processor is further operative with the program to sort the plurality of identified upsells according to a cost of each identified upsell.

173. The apparatus of claim 152, wherein the storage device further stores:

a database of at least one upsell price and a corresponding upsell and at least one corresponding upsell condition;

and wherein the processor is further operative with the program to

generate a purchase condition, and

identify at least one upsell in the database which corresponds to the compared upsell price and the purchase condition.

174. The apparatus of claim 152, wherein the processor is further operative with the program to generate a rounded price in dependence on a whole number which is greater than the purchase price.

175. The apparatus of claim 174, wherein the processor is further operative with the program to generate a rounded price in dependence on the smallest whole number which is greater than the purchase price.

176. The apparatus of claim 152, wherein the processor is further operative with the program to generate a rounded price in dependence on a multiple of ¼ which is greater than the purchase price.

177. A method for determining a second product in dependence on a purchase, the purchase including a first product, the terminal storing a required payment amount, comprising:

maintaining a database of at least one upsell price, a corresponding item purchased and a corresponding second product;

generating a purchase price of the purchase;

setting the required payment amount to be equal to the purchase price;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

comparing the calculated round-up amount with at least one of the upsell prices in the database; and

if the calculated round-up amount corresponds to a compared upsell price,

identifying the item purchased and second product which corresponds to the compared upsell price in the database,

if the first product corresponds to the identified item purchased, outputting a signal indicative of the second product,

generating a selection signal for indicating selection between the second product and the first product; and

setting the required payment amount to be equal to the rounded price if the selection signal indicates selection of the second product.

178. An apparatus for determining a second product in dependence on a purchase, the purchase including a first product, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a required payment amount,

a database of at least one upsell price and a corresponding upsell, and

a program for controlling the processor; and

the processor operative with the program to

generate a purchase price of the purchase,

set the required payment amount to be equal to the purchase price,

generate a rounded price,

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price,

compare the calculated round-up amount with at least one of the upsell prices in the database, and

if the calculated round-up amount corresponds to a compared upsell price,

identify the item purchased and second product which corresponds to the compared upsell price in the database,

if the first product corresponds to the identified item purchased, outputting a signal indicative of the second product,

generate a selection signal for indicating selection between the second product and the first product, and

set the required payment amount to be equal to the rounded price if the selection signal indicates selection of the second product.

179. A method for determining a second product in dependence on a purchase, the purchase including a first product, the terminal storing a required payment amount, comprising:

maintaining a database of at least one upsell price, a corresponding item purchased and a corresponding second product;

generating a purchase price of the purchase;

setting the required payment amount to be equal to the purchase price;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

comparing the calculated round-up amount with at least one of the upsell prices in the database; and

if the calculated round-up amount corresponds to a compared upsell price,

identifying the item purchased and second product which corresponds to the compared upsell price in the database,

if the first product corresponds to the identified item purchased, outputting a signal indicative of the second product,

generating a selection signal for indicating selection between the second product and change; and

setting the required payment amount to be equal to the rounded price if the selection signal indicates selection of the second product.

180. An apparatus for determining a second product in dependence on a purchase, the purchase including a first product, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a required payment amount,

a database of at least one upsell price and a corresponding upsell, and

a program for controlling the processor; and

the processor operative with the program to

generate a purchase price of the purchase,

set the required payment amount to be equal to the purchase price,

generate a rounded price;

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price,

compare the calculated round-up amount with at least one of the upsell prices in the database, and

if the calculated round-up amount corresponds to a compared upsell price,

identify the item purchased and second product which corresponds to the compared upsell price in the database,

if the first product corresponds to the identified item purchased, outputting a signal indicative of the second product,

generate a selection signal for indicating selection between the second product and change, and

set the required payment amount to be equal to the rounded price if the selection signal indicates selection of the second product.

181. A method for offering an upsell of a purchase at a point-of-sale terminal, comprising:

generating a purchase price of the purchase;

setting a required payment amount to be equal to the purchase price;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

generating a selection signal for indicating selection between the upsell and change; and

setting the required payment amount to be equal to the rounded price if the selection signal indicates selection of the upsell.

182. The method of claim 181, further comprising:

providing a voucher if the selection signal indicates selection of the upsell.

183. The method of claim 182, further comprising:

printing an identifier on the voucher.

184. The method of claim 182, further comprising:

maintaining an identifier database;

generating a unique identifier;

storing the unique identifier in the identifier database; and

printing the unique identifier on the voucher.

185. The method of claim 182, further comprising:

generating a date identifier in dependence on a date of the purchase; and

printing the date identifier on the voucher.

186. The method of claim 181, further comprising:

maintaining a database of offered upsells;

storing the round-up amount in the database of offered upsells;

storing the identified upsell in the database of offered upsells; and

storing the selection signal in the database of offered upsells.

187. The method of claim 186, further comprising:

storing a date of the purchase in the database of offered upsells.

188. The method of claim 181, wherein the upsell comprises a game entry.

189. The method of claim 188, further comprising:

maintaining a game database;

generating a unique identifier;

storing the unique identifier in the game database; and

storing the round-up amount in the game database.

190. The method of claim 181, further comprising:

if the selection signal indicates selection of the identified upsell, storing signals indicative of the identified upsell in a customer record, thereby associating the identified upsell with a customer.

191. The method of claim 190, further comprising:

storing signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell; and

storing signals indicative of a second customer identifier for identifying a second customer who receives the donated upsell.

192. The method of claim 190, further comprising:

storing signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell;

storing signals indicative of a plurality of customer identifiers for identifying a plurality of customers; and

selecting at least one of the plurality of customer identifiers, thereby selecting at least one customer who receives the donated upsell.

193. The method of claim 181, further comprising:

storing a preferred-upsell signal indicative of an upsell for each of a plurality of customers.

194. The method of claim 193, wherein the step of generating the selection signal comprises accessing the stored preferred-upsell signals, and generating the selection signal in dependence thereupon.

195. The method of claim 181, wherein the step of generating a rounded price comprises generating a rounded price in dependence on a whole number which is greater than the purchase price.

196. The method of claim 195, wherein the step of generating a rounded price comprises generating a rounded price in dependence on the smallest whole number which is greater than the purchase price.

197. The method of claim 181, wherein the step of generating a rounded price comprises generating a rounded price in dependence on a multiple of ¼ which is greater than the purchase price.

198. An apparatus for offering an upsell of a purchase, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a required payment amount, and

a program for controlling the processor; and

the processor operative with the program to

generate a purchase price of the purchase,

set a required payment amount to be equal to the purchase price,

generate a rounded price,

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price,

generate a selection signal for indicating selection between the upsell and change, and

set the required payment amount to be equal to the rounded price if the selection signal indicates selection of the upsell.

199. The apparatus of claim 198, wherein the processor is further operative with the program to generate a selection signal for indicating selection between the identified upsell and change.

200. The apparatus of claim 199, further comprising:

a printer connected to the processor for printing a voucher.

201. The apparatus of claim 200, wherein the processor is further operative with the program to drive the printer to print an identifier on the voucher.

202. The apparatus of claim 200, wherein the storage device further stores an identifier database; and

wherein the processor is further operative with the program to:

generate a unique identifier;

store the unique identifier in the identifier database; and

drive the printer to print the unique identifier on the voucher.

203. The apparatus of claim 199, wherein the processor is further operative with the program to:

generate a date identifier in dependence on a date of the purchase; and

drive the printer to print the date identifier on the voucher.

204. The apparatus of claim 199, wherein the storage device further stores a database of offered upsells;

and wherein the processor is further operative with the program to:

store the round-up amount in the database of offered upsells;

store the identificd upsell in the database of offered upsells; and

store the selection signal in the database of offered upsells.

205. The apparatus of claim 204, wherein the processor is further operative with the program to store a date of the purchase in the database of offered upsells.

206. The apparatus of claim 199, wherein the upsell comprises a game entry.

207. The apparatus of claim 206, wherein the storage device further stores a game database, and

wherein the processor is further operative with the program to:

generate a unique identifier;

store the unique identifier in the game database; and

store the round-up amount in the game database.

208. The apparatus of claim 199, wherein the storage device further stores a customer record, and wherein the processor is further operative with the program to:

if the selection signal indicates selection of the identified upsell, store signals indicative of the identified upsell in the customer record, thereby associating the identified upsell with a customer.

209. The apparatus of claim 208, wherein the storage device further stores:

signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell; and

signals indicative of a second customer identifier for identifying a second customer who receives the donated upsell.

210. The apparatus of claim 208, wherein the storage device further stores:

signals indicative of a first customer identifier for identifying a first customer who donates the identified upsell; and

signals indicative of a plurality of customer identifiers for identifying a plurality of customers;

and wherein the processor is further operative with the program to select at least one of the plurality of customer identifiers, thereby selecting at least one customer who receives the donated upsell.

211. The apparatus of claim 199, wherein the storage device further stores a preferred-upsell signal indicative of an upsell for each of a plurality of customers.

212. The apparatus of claim 211, wherein the processor is further operative with the program to access the stored preferred-upsell signals, and generate the selection signal in dependence thereupon.

213. The apparatus of claim 198, wherein the processor is further operative with the program to generate a rounded price in dependence on a whole number which is greater than the purchase price.

214. The apparatus of claim 213, wherein the processor is further operative with the program to generate a rounded price in dependence on the smallest whole number which is greater than the purchase price.

215. The apparatus of claim 198, wherein the processor is further operative with the program to generate a rounded price in dependence on a multiple of ¼ which is greater than the purchase price.

216. A method for determining an upsell of a purchase at a point-of-sale terminal, comprising:

generating a purchase price of the purchase;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

generating a selection signal for indicating selection between the upsell and change; and

printing indicia indicative of the round-up amount if the selection signal indicates selection of the upsell.

217. An apparatus for determining an upsell of a purchase, comprising:

a storage device;

a processor connected to the storage device; and

a printer connected to the processor,

the storage device storing

a program for controlling the processor;

the processor operative with the program to

generate a purchase price of the purchase,

generate a rounded price,

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price, and

generate a selection signal for indicating selection between the upsell and change; and

the printer for printing indicia indicative of the round-up amount if the selection signal indicates selection of the upsell.

218. A method for determining an upsell of a purchase at a point-of-sale terminal, the terminal storing a required payment amount, comprising:

generating a purchase price of the purchase;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

setting the required payment amount to be equal to the rounded price;

providing an upsell in exchange for the round-up amount.

219. A method for determining an upsell of a purchase, comprising:

maintaining a database of at least one upsell price and a corresponding upsell;

receiving a purchase price of the purchase;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

comparing the calculated round-up amount with at least one of the upsell prices in the database; and

if the calculated round-up amount corresponds to a compared upsell price,

identifying at least one upsell in the database which corresponds to the compared upsell price, and

outputting signals indicative of the identified upsell.

220. The method of claim 219, further comprising:

generating a selection signal for indicating selection between the identified upsell and change; and

transmitting the rounded price if the selection signal indicates selection of the identified upsell.

221. The method of claim 220, wherein the step transmitting the rounded price comprises transmitting the rounded price to a register if the selection signal indicates selection of the identified upsell.

222. The method of claim 219, wherein the step of receiving the purchase price comprises receiving the purchase price of the purchase from a register.

223. An apparatus for determining an upsell of a purchase, comprising:

a storage device; and

a processor connected to the storage device;

the storage device storing

a database of at least one upsell price and a corresponding upsell, and

a program for controlling the processor;

the processor operative with the program to

receive a purchase price of the purchase,

generate a rounded price,

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price,

comparing the calculated round-up amount with at least one of the upsell prices in the database, and

if the calculated round-up amount corresponds to a compared upsell price,

identify at least one upsell in the database which corresponds to the compared upsell price, and

output signals indicative of the identified upsell.

224. The apparatus of claim 223, wherein the processor is further operative with the program to

generate a selection signal for indicating selection between the identified upsell and change, and

transmit the rounded price if the selection signal indicates selection of the identified upsell.

225. The apparatus of claim 224, wherein the processor is further operative with the program to transmit the rounded price to a register if the selection signal indicates selection of the identified upsell.

226. The apparatus of claim 223, wherein the processor is further operative with the program to receive the purchase price of the purchase from a register.

227. A method for determining an upsell of a purchase at a register storing a required payment amount, the register communicating with a processing system, comprising:

generating a purchase price of the purchase;

setting the required payment amount to be equal to the purchase price;

transmitting the purchase price to the processing system; and

if a rounded price is received from the processing system, setting the required payment amount to be equal to the rounded price.

228. An apparatus for determining an upsell of a purchase, the apparatus communicating with a processing system, comprising:

a storage device; and

a processor connected to the storage device;

the storage device storing

a required payment amount, and

a program for controlling the processor;

the processor operative with the program to

generate a purchase price of the purchase;

set the required payment amount to be equal to the purchase price;

transmit the purchase price to the processing system; and

if a rounded price is received from the processing system, set the required payment amount to be equal to the rounded price.

229. A method for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

determining a monetary value;

allocating a portion of a ticket, the portion being based on the monetary value;

outputting a ticket identifier that identifies the ticket and a portion identifier that identifies the allocated portion of the ticket; and

storing the ticket identifier and the portion identifier.

230. The method of claim 229, in which the step of determining a monetary value comprises:

determining a monetary value based on an amount of change due for a purchase.

231. The method of claim 229, further comprising:

selecting the ticket from a plurality of tickets.

232. The method of claim 231, in which the step of selecting the ticket from a plurality of tickets comprises:

selecting a ticket having an unallocated portion at least as great as the monetary value.

233. The method of claim 231, in which the step of selecting the ticket from a plurality of tickets comprises:

determining a set of tickets that each have an unallocated portion at least as great as the monetary value; and

selecting a ticket from the set of tickets which has a minimal unallocated portion.

234. An apparatus for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

determine a monetary value;

allocate a portion of a ticket, the portion being based on the monetary value;

output a ticket identifier that identifies the ticket and a portion identifier that identifies the allocated portion of the ticket; and

store the ticket identifier and the portion identifier in the storage device.

235. The apparatus of claim 234, in which the processor is further operative with the program to:

determine a monetary value based on an amount of change due for a purchase.

236. The apparatus of claim 234, in which the processor is further operative with the program to:

select the ticket from a plurality of tickets.

237. The apparatus of claim 236, in which the processor is further operative with the program to:

select a ticket having an unallocated portion at least as great as the monetary value.

238. The apparatus of claim 236, in which the processor is further operative with the program to:

determine a set of tickets that each have an unallocated portion at least as great as the monetary value; and

select a ticket from the set of tickets which has a minimal unallocated portion.

239. A method for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

determining a monetary value;

allocating a portion of each ticket of a plurality of tickets, the portion of each ticket being associated with a portion of the monetary value;

outputting a plurality of ticket identifiers that identify the plurality of tickets and a plurality of portion identifiers that identify the allocated portions of each ticket; and

storing the ticket identifiers and the portion identifiers.

240. An apparatus for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

determine a monetary value;

allocate a portion of each ticket of a plurality of tickets, the portion of each ticket being associated with a portion of the monetary value;

output a plurality of ticket identifiers that identify the plurality of tickets and a plurality of portion identifiers that identify the allocated portions of each ticket; and

store the ticket identifiers and the portion identifiers in the storage device.

241. A method for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

determining an amount of change due for a purchase;

determining a monetary value based on the amount of change due;

selecting a ticket from a plurality of tickets, the selected ticket having an unallocated portion at least as great as the monetary value;

allocating at least a portion of the selected ticket, the portion being based on the monetary value;

outputting a ticket identifier that identifies the ticket and a portion identifier that identifies the allocated portion of the selected ticket; and

storing the ticket identifier and the portion identifier.

242. The method of claim 241, in which the step of determining a monetary value comprises:

rounding the amount of change due to a predetermined multiple, thereby generating a rounded change amount; and

setting the monetary value equal to the rounded change amount.

243. The method of claim 242, in which the step of rounding the amount of change due comprises:

rounding down the amount of change due to a predetermined multiple, thereby generating a rounded-down change amount.

244. The method of claim 241, further comprising:

outputting an offer to exchange a fractional lottery ticket for change due.

245. An apparatus for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

determine an amount of change due for a purchase;

determine a monetary value based on the amount of change due;

select a ticket from a plurality of tickets, the selected ticket having an unallocated portion at least as great as the monetary value;

allocate at least a portion of the selected ticket, the portion being based on the monetary value;

output a ticket identifier that identifies the ticket and a portion identifier that identifies the allocated portion of the selected ticket; and

store the ticket identifier and the portion identifier in the storage device.

246. The apparatus of claim 245, in which the processor is further operative with the program to:

round the amount of change due to a predetermined multiple, thereby generating a rounded change amount; and

set the monetary value equal to the rounded change amount.

247. The apparatus of claim 246, in which the processor is further operative with the program to:

round down the amount of change due to a predetermined multiple, thereby generating a rounded-down change amount.

248. The apparatus of claim 245, in which the processor is further operative with the program to:

output an offer to exchange a fractional lottery ticket for change due.

249. A method for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

receiving a ticket identifier that identifies a ticket and a portion identifier that identifies an allocated portion of the ticket;

determining a prize value of the ticket; and

determining a portion of the prize value based on the allocated portion of the ticket.

250. An apparatus for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a ticket identifier that identifies a ticket and a portion identifier that identifies an allocated portion of the ticket;

determine a prize value of the ticket; and

determine a portion of the prize value based on the allocated portion of the ticket.

251. A method for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

determining a monetary value;

allocating at least a portion of a ticket, the portion being based on the monetary value;

determining a prize value of the ticket; and

providing a portion of the prize value based on the allocated portion of the ticket.

252. An apparatus for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

determine a monetary value;

allocate at least a portion of a ticket, the portion being based on the monetary value;

determine a prize value of the ticket; and

provide a portion of the prize value based on the allocated portion of the ticket.

253. A method for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

maintaining a supply of tickets, each ticket having an unallocated portion thereof;

acquiring an additional ticket.

254. The method of claim 253, in which the step of acquiring an additional ticket comprises:

counting a number of tickets having an unallocated portion that is above a first predetermined threshold; and

acquiring an additional ticket if the number of tickets having an unallocated portion that is above the first predetermined threshold is below a second predetermined threshold.

255. The method of claim 253, in which the step of acquiring an additional ticket comprises:

receiving an indication of a requested portion;

counting a number of tickets having an unallocated portion that is above the requested portion; and

acquiring an additional ticket if the number of tickets having unallocated portion that is above the requested portion is below a predetermined threshold.

256. The method of claim 253, in which the step of acquiring an additional ticket comprises:

acquiring a predetermined number of additional tickets.

257. The method of claim 253, further comprising:

calculating a sum of the unallocated portions of the tickets.

258. The method of claim 257, in which the step of acquiring an additional ticket comprises:

acquiring an additional ticket if the calculated sum is below a predetermined threshold.

259. An apparatus for facilitating the purchase of fractional lottery tickets using a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

maintain a supply of tickets, each ticket having an unallocated portion thereof; and

acquire an additional ticket.

260. The apparatus of claim 259, in which the processor is further operative with the program to:

count a number of tickets having an unallocated portion that is above a first predetermined threshold; and

acquire an additional ticket if the number of tickets having an unallocated portion that is above the first predetermined threshold is below a second predetermined threshold.

261. The apparatus of claim 259, in which the processor is further operative with the program to:

receive an indication of a requested portion;

count a number of tickets having an unallocated portion that is above the requested portion; and

acquire an additional ticket if the number of tickets having unallocated portion that is above the requested portion is below a predetermined threshold.

262. The apparatus of claim 259, in which the processor is further operative with the program to:

acquire a predetermined number of additional tickets.

263. The apparatus of claim 259, in which the processor is further operative with the program to:

calculate a sum of the unallocated portions of the tickets.

264. The apparatus of claim 263, in which the processor is further operative with the program to:

acquire an additional ticket if the calculated sum is below a predetermined threshold.

265. A method for providing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a purchase that includes at least one item;

determining an upsell based on the at least one item; and

outputting an indication of the upsell.

266. An apparatus for providing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a purchase that includes at least one item;

determine an upsell based on the at least one item; and

output an indication of the upsell.

267. A method for providing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a purchase that includes at least one item;

determining an upsell based on the at least one item;

determining a rounded price for the at least one item and the upsell; and

providing an offer to exchange the at least one item and the upsell for a rounded price.

268. The method of claim 267, further comprising:

receiving a response to the offer; and

exchanging the at least one item and the upsell for the rounded price.

269. An apparatus for providing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a purchase that includes at least one item;

determine an upsell based on the at least one item;

determine a rounded price for the at least one item and the upsell; and

provide an offer to exchange the at least one item and the upsell for a rounded price.

270. The apparatus of claim 269, in which the processor is further operative with the program to:

receive a response to the offer; and

exchange the at least one item and the upsell for the rounded price.

271. A method for providing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a purchase that includes at least one item;

determining a record in a database that corresponds to the at least one item;

determining an upsell based on the record; and

outputting an indication of the upsell.

272. The method of claim 271, further comprising:

determining a rounded price for the at least one item and the upsell.

273. The method of claim 272, in which the step of determining a rounded price comprises:

determining the rounded price based on the record.

274. The method of claim 272, in which the step of determining a rounded price comprises:

determining a purchase price of the purchase;

determining a rounding multiple based on the record; and

rounding the purchase price in accordance with the rounding multiple, thereby generating the rounded price.

275. The method of claim 272, in which the step of determining a rounded price comprises:

determining a purchase price of the purchase;

determining an upsell price based on the record; and

adding the purchase price to the upsell price, thereby generating the rounded price.

276. The method of claim 272, further comprising:

setting a required payment amount to be the rounded price.

277. The method of claim 271, in which the step of determining a record comprises:

determining a plurality of records in the database that each correspond to the at least one item;

determining a plurality of upsells, each upsell based on a record of the plurality of records; and

outputting an indication of at least one upsell of the plurality of upsells.

278. An apparatus for providing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a purchase that includes at least one item;

determine a record in a database that corresponds to the at least one item;

determine an upsell based on the record; and

output an indication of the upsell.

279. The apparatus of claim 278, in which the processor is further operative with the program to:

determine a rounded price for the at least one item and the upsell.

280. The apparatus of claim 279, in which the processor is further operative with the program to:

determine the rounded price based on the record.

281. The apparatus of claim 279, in which the processor is further operative with the program to:

determine a purchase price of the purchase;

determine a rounding multiple based on the record; and

round the purchase price in accordance with the rounding multiple, thereby generating the rounded price.

282. The apparatus of claim 279, in which the processor is further operative with the program to:

determine a purchase price of the purchase;

determine an upsell price based on the record; and

add the purchase price to the upsell price, thereby generating the rounded price.

283. The apparatus of claim 279, in which the processor is further operative with the program to:

set a required payment amount to be the rounded price.

284. The apparatus of claim 278, in which the processor is further operative with the program to:

determine a plurality of records in the database that each correspond to the at least one item;

determine a plurality of upsells, each upsell based on a record of the plurality of records; and

output an indication of at least one upsell of the plurality of upsells.

285. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring an activity rate of a point-of-sale terminal; and

performing a supplementary process in accordance with the activity rate.

286. The method of claim 285, in which the step of performing a supplementary process comprises:

disabling a system for providing a supplementary process if the activity rate is greater than a predetermined threshold.

287. The method of claim 285, in which the step of performing a supplementary process comprises:

enabling a system for providing a supplementary process if the activity rate is less than a predetermined threshold.

288. The method of claim 285, further comprising:

determining a predetermined threshold in dependence on a signal indicative of time of day.

289. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure an activity rate of a point-of-sale terminal; and

perform a supplementary process in accordance with the activity rate.

290. The apparatus of claim 289, in which the processor is further operative with the program to:

disable a system for providing a supplementary process if the activity rate is greater than a predetermined threshold.

291. The apparatus of claim 289, in which the processor is further operative with the program to:

enable a system for providing a supplementary process if the activity rate is less than a predetermined threshold.

292. The apparatus of claim 289, in which the processor is further operative to:

determine a predetermined threshold in dependence on a signal indicative of time of day.

293. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring an activity rate of a point-of-sale terminal;

providing a supplementary product offer in accordance with the activity rate and an offer schedule.

294. The method of claim 293, in which the offer schedule comprises a set of supplementary product offers, each supplementary product offer corresponding to a predetermined range of activity rates.

295. The method of claim 294, in which successively time-consuming supplementary product offers correspond to successively greater ranges of activity rates.

296. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure an activity rate of a point-of-sale terminal; and

provide a supplementary product offer in accordance with the activity rate and an offer schedule.

297. The apparatus of claim 296, in which the offer schedule comprises a set of supplementary product offers, each supplementary product offer corresponding to a predetermined range of activity rates.

298. The apparatus of claim 297, in which successively time-consuming supplementary product offers correspond to successively greater ranges of activity rates.

299. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring a criterion;

determining, based on the criterion, whether to disable a system for providing a supplementary process; and

disabling the system for providing a supplementary process.

300. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device, the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure a criterion;

determine, based on the criterion, whether to disable a system for providing a supplementary process; and

disable the system for providing a supplementary process.

301. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring a criterion;

determining, based on the criterion, whether to enable a system for providing a supplementary process; and

enabling the system for providing a supplementary process.

302. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device, the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure a criterion;

determine, based on the criterion, whether to enable a system for providing a supplementary process; and

enable the system for providing a supplementary process.

303. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring an activity rate of a plurality of point-of-sale terminals;

determining, based on the activity rate, whether to perform a supplementary process; and

performing the supplementary process for at least one point-of-sale terminal.

304. The method of claim 303, in which the step of performing the supplementary process comprises:

performing the supplementary process for each point-of-sale terminal.

305. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure an activity rate of a plurality of point-of-sale terminals;

determine, based on the activity rate, whether to perform a supplementary process; and

perform the supplementary process for at least one point-of-sale terminal.

306. The apparatus of claim 305, in which the processor is further operative with the program to:

perform the supplementary process for each point-of-sale terminal.

307. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring an activity rate of a plurality of point-of-sale terminals;

determining, based on the activity rate, whether to disable a system for providing a supplementary process; and

disabling a system for providing a supplementary process for each of a plurality of point-of-sale terminals.

308. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure an activity rate of a plurality of point-of-sale terminals;

determine, based on the activity rate, whether to disable a system for providing a supplementary process; and

disable a system for providing a supplementary process for each of a plurality of point-of-sale terminals.

309. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring an activity rate of a point-of-sale terminal; and

if the activity rate is less than a predetermined threshold,

determining an upsell in dependence on a purchase,

determining an upsell price in dependence on the purchase, and

offering to exchange the upsell price for the upsell.

310. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure an activity rate of a point-of-sale terminal; and

if the activity rate is less than a predetermined threshold,

determine an upsell in dependence on a purchase,

determine an upsell price in dependence on the purchase, and

offer to exchange the upsell price for the upsell.

311. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

receiving an override signal; and

performing a supplementary process in accordance with the override signal.

312. The method of claim 311, in which the step of performing comprises:

disabling a system for providing a supplementary process if the override signal does not indicate performance of the supplemental process.

313. The method of claim 311, in which the step of performing comprises:

enabling a system for providing a supplementary process if the override signal indicates performance of the supplemental process.

314. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

receive an override signal; and

perform a supplementary process in accordance with the override signal.

315. The apparatus of claim 314, in which the processor is further operative with the program to:

disable a system for providing a supplementary process if the override signal does not indicate performance of the supplemental process.

316. The apparatus of claim 314, in which the processor is further operative with the program to:

enable a system for providing a supplementary process if the override signal indicates performance of the supplemental process.

317. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

receiving an override signal; and

if the override signal indicates performance of a supplemental process,

determining an upsell in dependence on a purchase,

determining an upsell price in dependence on the purchase, and

offering to exchange the upsell price for the upsell.

318. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

receive an override signal; and

if the override signal indicates performance of a supplemental process,

determine an upsell in dependence on a purchase,

determine an upsell price in dependence on the purchase, and

offer to exchange the upsell price for the upsell.

319. A method for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

measuring an activity rate of a point-of-sale terminal; and

if the activity rate is below a first predetermined threshold, offering a first upsell having an first offer speed; and

if the activity rate is above a second predetermined threshold, offering a second upsell having a second offer speed greater than the first offer speed.

320. An apparatus for controlling the performance of a supplementary process at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

measure an activity rate of a point-of-sale terminal; and

if the activity rate is below a first predetermined threshold,

offer a first upsell having an first offer speed; and

if the activity rate is above a second predetermined threshold,

offer a second upsell having a second offer speed grcater than the first offer speed.

321. A method for processing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a rounding code; and

rounding a purchase price based on the rounding code.

322. An apparatus for processing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to thc storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a rounding code; and

round a purchase price based on the rounding code.

323. A method for processing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a rounding code, the rounding code having a corresponding rounding multiple; and

rounding a purchase price based on the rounding multiple.

324. An apparatus for processing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a rounding code, the rounding code having a corresponding rounding multiple; and

round a purchase price based on the rounding multiple.

325. A method for processing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a rounding code;

determining a rounding multiple corresponding to the rounding code; and

rounding a purchase price based on the rounding multiple.

326. An apparatus for processing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a rounding code;

determine a rounding multiple corresponding to the rounding code; and

round a purchase price based on the rounding multiple.

327. A method for processing a supplementary product sale at a point-of-sale terminal, comprising:

receiving a plurality of rounding codes, each rounding code having a corresponding rounding multiple and fixed price;

determining a purchase price; and

rounding the purchase price based on the rounding codes.

328. The method of claim 327, in which the step of rounding comprises:

adding at least one of the fixed prices to the purchase price, thereby generating an augmented purchase price; and

rounding the augmented purchase price based on a rounding multiple.

329. The method of claim 327, in which the step of rounding comprises:

rounding the purchase price based on a rounding multiple, thereby generating an augmented purchase price; and

adding at least one of the fixed prices to the augmented purchase price.

330. The method of claim 327, in which the step of rounding comprises:

selecting a rounding code, thereby defining a selected rounding code and a set of unselected rounding codes.

331. The method of claim 330, in which the step of rounding further comprises:

adding the fixed price of each unselected rounding code to the purchase price, thereby generating an augmented purchase price; and

rounding the augmented purchase price based on the rounding multiple of the selected rounding code.

332. The method of claim 330, in which the step of rounding further comprises:

rounding the purchase price based on the rounding multiple of the selected rounding code, thereby generating an augmented price; and

adding the fixed price of each unselected rounding code to the augmented price.

333. The method of claim 330, in which the step of selecting a rounding code comprises:

selecting a rounding code having a rounding multiple that is not greater than the rounding multiple of each unselected rounding code.

334. The method of claim 330, in which the step of selecting a rounding code comprises:

selecting a rounding code having a minimal rounding multiple.

335. The method of claim 327, in which the fixed price and the rounding multiple of each rounding code are equal.

336. An apparatus for processing a supplementary product sale at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processor; and

the processor operative with the program to:

receive a plurality of rounding codes, each rounding code having a corresponding rounding multiple and fixed price;

determine a purchase price; and

round the purchase price based on the rounding codes.

337. The apparatus of claim 336, in which the processor is further operative with the program to:

add at least one of the fixed prices to the purchase price, thereby generating an augmented purchase price; and

round the augmented purchase price based on a rounding multiple.

338. The apparatus of claim 336, in which the processor is further operative with the program to:

round the purchase price based on a rounding multiple, thereby generating an augmented purchase price; and

add at least one of the fixed prices to the augmented purchase price.

339. The apparatus of claim 336, in which the processor is further operative with the program to:

select a rounding code, thereby defining a selected rounding code and a set of unselected rounding codes.

340. The apparatus of claim 339, in which the processor is further operative with the program to:

add the fixed price of each unselected rounding code to the purchase price, thereby generating an augmented purchase price; and

round the augmented purchase price based on the rounding multiple of the selected rounding code.

341. The apparatus of claim 339, in which the processor is further operative with the program to:

round the purchase price based on the rounding multiple of the selected rounding code, thereby generating an augmented price; and

add the fixed price of each unselected rounding code to the augmented price.

342. The apparatus of claim 339, in which the processor is further operative with the program to:

select a rounding code having a rounding multiple that is not greater than the rounding multiple of each unselected rounding code.

343. The apparatus of claim 339, in which the processor is further operative with the program to:

select a rounding code having a minimal rounding multiple.

344. The apparatus of claim 336, in which the fixed price and the rounding multiple of each rounding code are equal.

345. A method for controlling offers that are provided at a point-of-sale terminal, comprising:

providing a plurality of offers at a point-of-sale terminal;

measuring a performance rate of each offer, thereby defining a plurality of performance rates;

selecting a subset of offers based on at least one of the plurality of performance rates; and

providing the subset of offers at a point-of-sale terminal.

346. The method of claim 345, in which the step of providing a plurality of offers is performed during a first time period; and in which the step of providing the subset of offers is performed during a second time period which is subsequent to the first time period.

347. The method of claim 345, in which the step of providing a plurality of offers comprises:

providing an offer of the plurality of offers at each of a plurality of terminals.

348. The method of claim 345, further comprising:

measuring a performance rate of the subset; and

if the performance rate of the subset is less than a predetermined threshold,

providing the plurality of offers after the step of providing the subset of offers.

349. The method of claim 345, in which the step of selecting a subset of offers comprises:

selecting offers that have at least a predetermined performance rate.

350. The method of claim 345, in which the step of selecting a subset of offers comprises:

selecting a predetermined number of highest-performing offers.

351. An apparatus for controlling offers that are provided at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

provide a plurality of offers at a point-of-sale terminal;

measure a performance rate of each offer, thereby defining a plurality of performance rates;

select a subset of offers based on at least one of the plurality of performance rates; and

provide the subset of offers at a point-of-sale terminal.

352. The apparatus of claim 351, in which the processor is further operative with the program to:

provide a plurality of offers during a first time period; and

provide the subset of offers during a second time period which is subsequent to the first time period.

353. The apparatus of claim 351, in which the processor is further operative with the program to provide an offer of the plurality of offers at each of a plurality of terminals.

354. The apparatus of claim 351, in which the processor is further operative with the program to:

measure a performance rate of the subset; and

if the performance rate of the subset is less than a predetermined threshold,

provide the plurality of offers after a provision of the subset of offers.

355. The apparatus of claim 351, in which the processor is further operative with the program to select offers that have at least a predetermined performance rate.

356. The method of claim 351, in which the processor is further operative with the program to select a predetermined number of highest-performing offers.

357. A method for controlling offers that are provided at a point-of-sale terminal, comprising:

providing a first offer at a point-of-sale terminal;

measuring a performance rate of the first offer; and

if the performance rate of the first offer is below a predetermined threshold,

providing a second offer at a point-of-sale terminal.

358. An apparatus for controlling offers that are provided at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

provide a first offer at a point-of-sale terminal;

measure a performance rate of the first offer; and

if the performance rate of the first offer is below a predetermined threshold,

provide a second offer at a point-of-sale terminal.

359. A method for controlling offers that are provided at a point-of-sale terminal, comprising:

providing a first offer at a first point-of-sale terminal;

providing a second offer at a second point-of-sale terminal;

measuring a performance rate of the first offer;

measuring a performance rate of the second offer; and

if the performance rate of the second offer is less than the performance rate of the first offer,

providing the first offer at the second point-of-sale terminal.

360. An apparatus for controlling offers that are provided at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to:

provide a first offer at a first point-of-sale terminal;

provide a second offer at a second point-of-sale terminal;

measure a performance rate of the first offer;

measure a performance rate of the second offer; and

if the performance rate of the second offer is less than the performance rate of the first offer,

provide the first offer at the second point-of-sale terminal.

361. A method for controlling offers that are provided at a point-of-sale terminal, comprising:

for each of a plurality of purchases,

determining an upsell in dependence on the purchase,

determining an upsell price, each upsell price being based on a purchase, and

offering to exchange the upsell price for the upsell;

measuring a performance rate of each upsell, thereby defining a plurality of performance rates;

selecting a subset of upsells based on at least one of the plurality of performance rates; and

providing the subset of upsells at a point-of-sale terminal.

362. An apparatus for controlling offers that are provided at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to, for each of a plurality of purchases:

determine an upsell in dependence on the purchase,

determine an upsell price, each upsell price being based on a purchase, and

offer to exchange the upsell price for the upsell;

measure a performance rate of each upsell, thereby defining a plurality of performance rates;

select a subset of upsells based on at least one of the plurality of performance rates; and

provide the subset of upsells at a point-of-sale terminal.

363. A method for determining an upsell of a purchase at a point-of-sale terminal, comprising:

determining an upsell in dependence on the purchase; and

offering to exchange the upsell price for the upsell.

364. An apparatus for determining an upsell of a purchase at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processsor; and the processor operative with the program to:

determine an upsell in dependence on the purchase; and

offer to exchange the upsell price for the upsell.

365. A method for determining an upsell of a purchase at a point-of-sale terminal, comprising:

generating a purchase price of the upsell;

determining an upsell price in dependence on the purchase price; and

offering to exchange the upsell for the upsell price.

366. An apparatus for determining an upsell of a purchase at a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processsor; and the processor operative with the program to:

generate a purchase price of the upsell;

determine an upsell price in dependence on the purchase price; and

offer to exchange the upsell for the upsell price.

367. A method for determining an upsell of a purchase a t a point-of-sale terminal, comprising:

generating a purchase price of the purchase;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

determining an upsell in dependence on the round-up amount; and

outputting a signal indicative of the upsell.

368. An apparatus for determining an upsell of a purchase a t a point-of-sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processsor; and the processor operative with the program to:

generate a purchase price of the purchase;

generate a rounded price;

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

determine an upsell in dependence on the round-up amount; and

output a signal indicative of the upsell.

369. A method for determining an upsell of a purchase at a point-of -sale terminal, comprising:

generating a purchase price of a purchase;

generating a rounded price;

calculating a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

determining an upsell in dependence on the round up amount; and offering to exchange the round-up amount for the upsell.

370. An apparatus for determining an upsell of a purchase at a point-of -sale terminal, comprising:

a storage device; and

a processor connected to the storage device,

the storage device storing

a program for controlling the processsor; and the processor operative with the program to:

generate a purchase price of a purchase;

generate a rounded price;

calculate a round-up amount, the round-up amount being a difference between the purchase price and the rounded price;

determine an upsell in dependence on the round up amount; and

offer to exchange the round-up amount for the upsell.

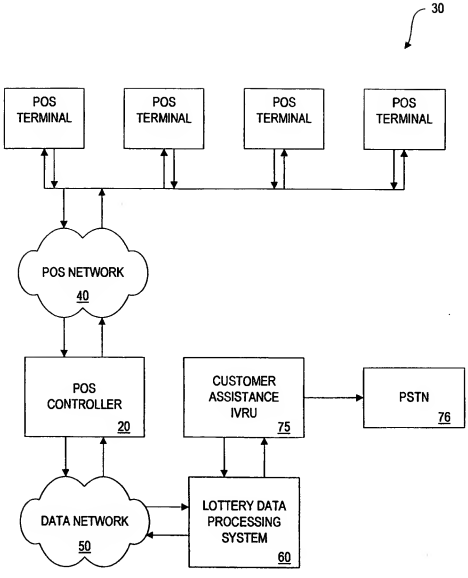

30
POS TERMINAL
POS TERMINAL
POS TERMINAL
POS TERMINAL
POS NETWORK
40
POS CONTROLLER
20
CUSTOMER ASSISTANCE IVRU
75
PSTN
76
DATA NETWORK
50
LOTTERY DATA PROCESSING SYSTEM
60

FIG. 1

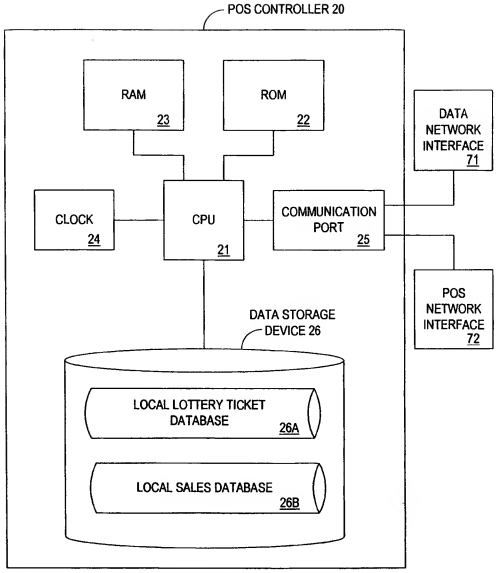

POS CONTROLLER 20
RAM
23
ROM
22
DATA
NETWORK
INTERFACE
71
CLOCK
24
CPU
21
COMMUNICATION
PORT
25
POS
NETWORK
INTERFACE
72
DATA STORAGE
DEVICE 26
LOCAL LOTTERY TICKET
DATABASE
26A
LOCAL SALES DATABASE
26B

FIG. 2

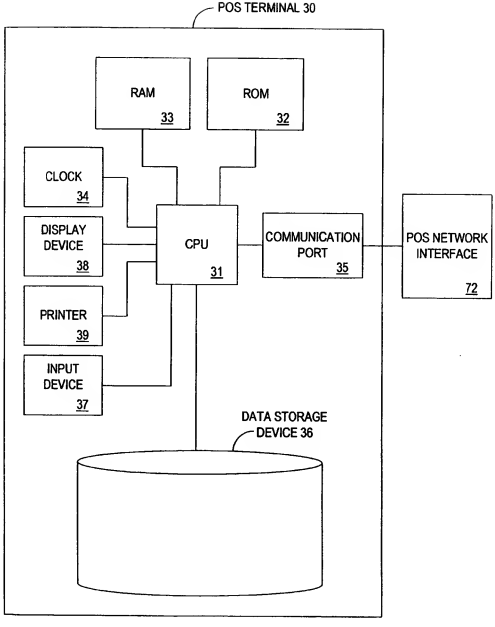

POS TERMINAL 30
RAM
33
ROM
32
CLOCK
34
DISPLAY DEVICE
38
CPU
31
COMMUNICATION PORT
35
POS NETWORK INTERFACE
72
PRINTER
39
INPUT DEVICE
37
DATA STORAGE DEVICE 36

FIG. 3

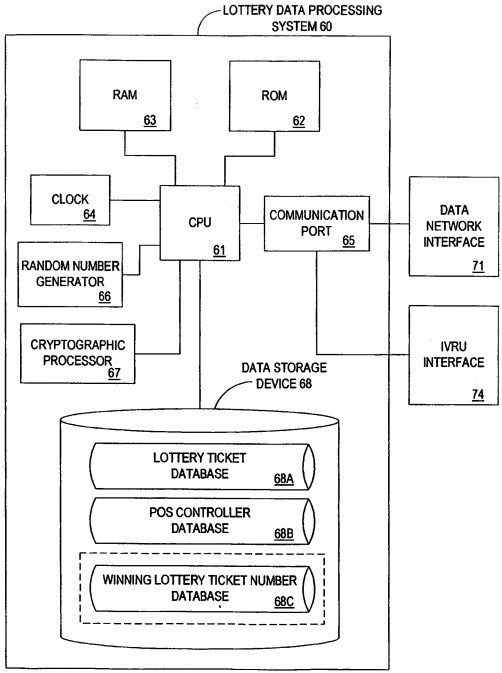

LOTTERY DATA PROCESSING SYSTEM 60
RAM 63
ROM 62
CLOCK 64
CPU 61
COMMUNICATION PORT 65
DATA NETWORK INTERFACE 71
RANDOM NUMBER GENERATOR 66
CRYPTOGRAPHIC PROCESSOR 67
IVRU INTERFACE 74
DATA STORAGE DEVICE 68
LOTTERY TICKET DATABASE 68A
POS CONTROLLER DATABASE 68B
WINNING LOTTERY TICKET NUMBER DATABASE 68C

FIG. 4

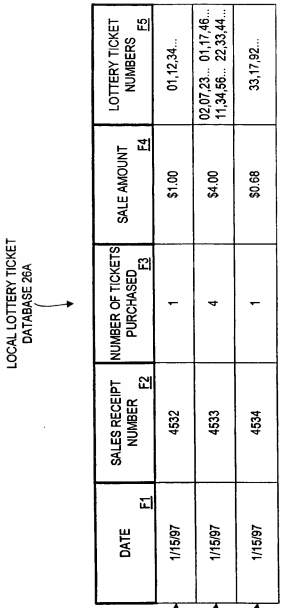

LOCAL LOTTERY TICKET DATABASE 26A
R1
DATE F1
SALES RECEIPT NUMBER F2
NUMBER OF TICKETS PURCHASED F3
SALE AMOUNT F4
LOTTERY TICKET NUMBERS F5
1/15/97
4532
1
$1.00
01,12,34...
1/15/97
4533
4
$4.00
02,07,23... 01,17,46... 11,34,56... 22,33,44...
1/15/97
4534
1
$0.68
33,17,92...

FIG. 5

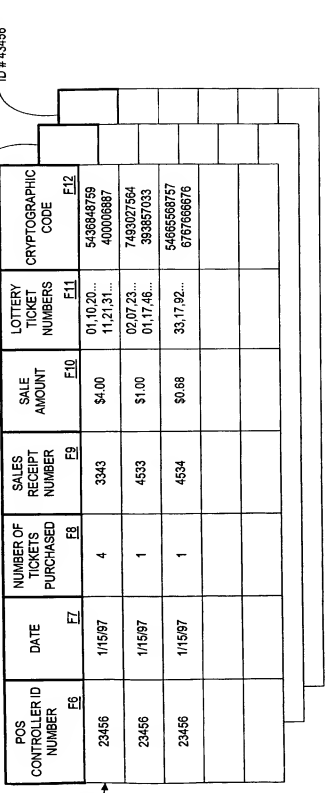

LOTTERY TICKET DATABASE 88A
POS CONTROLLER ID # 33456
POS CONTRLLER ID # 43456
R2
POS CONTROLLER ID NUMBER F6
DATE F7
NUMBER OF TICKETS PURCHASED F8
SALES RECEIPT NUMBER F9
SALE AMOUNT F10
LOTTERY TICKET NUMBERS F11
CRYPTOGRAPHIC CODE F12
23456 1/15/97 4 3343 $4.00 01,10,20... 11,21,31... 5436848759 400006887
23456 1/15/97 1 4533 $1.00 02,07,23... 01,17,46... 7493027564 393857033
23456 1/15/97 1 4534 $0.68 33,17,92... 5465568757 6767068676

FIG. 6

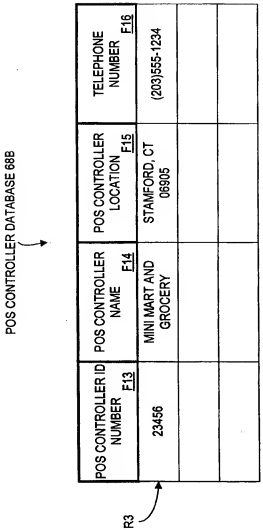

POS CONTROLLER DATABASE 68B
POS CONTROLLER ID NUMBER F13
POS CONTROLLER NAME F14
POS CONTROLLER LOCATION F15
TELEPHONE NUMBER F16
23456
MINI MART AND GROCERY
STAMFORD, CT 06905
(203)555-1234
R3

FIG. 7

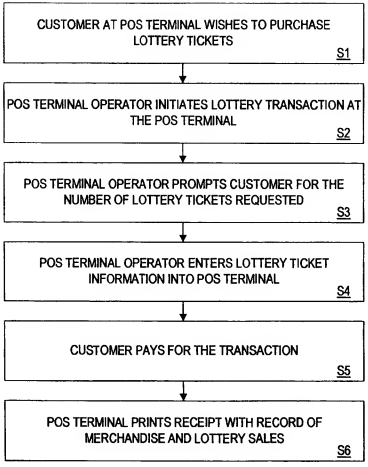

CUSTOMER AT POS TERMINAL WISHES TO PURCHASE LOTTERY TICKETS
S1
POS TERMINAL OPERATOR INITIATES LOTTERY TRANSACTION AT THE POS TERMINAL
S2
POS TERMINAL OPERATOR PROMPTS CUSTOMER FOR THE NUMBER OF LOTTERY TICKETS REQUESTED
S3
POS TERMINAL OPERATOR ENTERS LOTTERY TICKET INFORMATION INTO POS TERMINAL
S4
CUSTOMER PAYS FOR THE TRANSACTION
S5
POS TERMINAL PRINTS RECEIPT WITH RECORD OF MERCHANDISE AND LOTTERY SALES
S6

FIG. 8

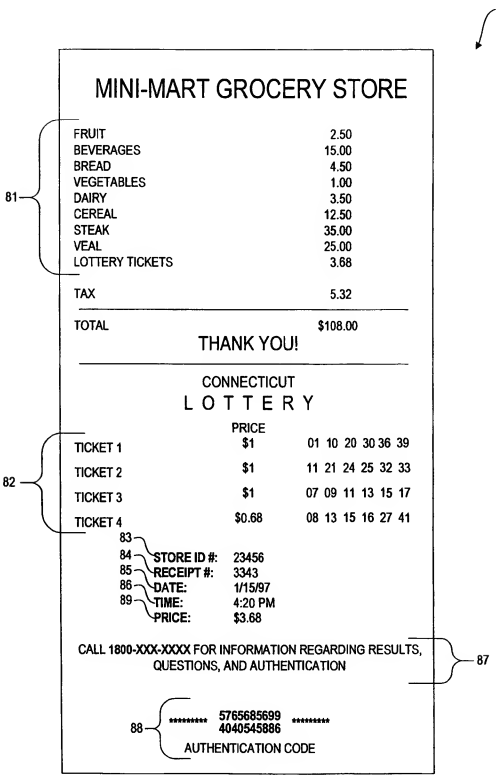

80
MINI-MART GROCERY STORE
81
FRUIT 2.50
BEVERAGES 15.00
BREAD 4.50
VEGETABLES 1.00
DAIRY 3.50
CEREAL 12.50
STEAK 35.00
VEAL 25.00
LOTTERY TICKETS 3.68
TAX 5.32
TOTAL $108.00
THANK YOU!
CONNECTICUT
LOTTERY
PRICE
82
TICKET 1 $1 01 10 20 30 36 39
TICKET 2 $1 11 21 24 25 32 33
TICKET 3 $1 07 09 11 13 15 17
TICKET 4 $0.68 08 13 15 16 27 41
83
84 STORE ID #: 23456
85 RECEIPT #: 3343
86 DATE: 1/15/97
89 TIME: 4:20 PM
PRICE: $3.68
CALL 1800-XXX-XXXX FOR INFORMATION REGARDING RESULTS, QUESTIONS, AND AUTHENTICATION
87
88
********* 5765685699 4040545886 *********
AUTHENTICATION CODE

FIG. 9

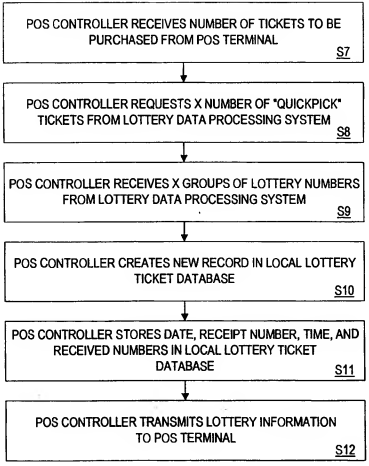

POS CONTROLLER RECEIVES NUMBER OF TICKETS TO BE PURCHASED FROM POS TERMINAL
S7
POS CONTROLLER REQUESTS X NUMBER OF "QUICKPICK" TICKETS FROM LOTTERY DATA PROCESSING SYSTEM
S8
POS CONTROLLER RECEIVES X GROUPS OF LOTTERY NUMBERS FROM LOTTERY DATA PROCESSING SYSTEM
S9
POS CONTROLLER CREATES NEW RECORD IN LOCAL LOTTERY TICKET DATABASE
S10
POS CONTROLLER STORES DATE, RECEIPT NUMBER, TIME, AND RECEIVED NUMBERS IN LOCAL LOTTERY TICKET DATABASE
S11
POS CONTROLLER TRANSMITS LOTTERY INFORMATION TO POS TERMINAL
S12

FIG. 10

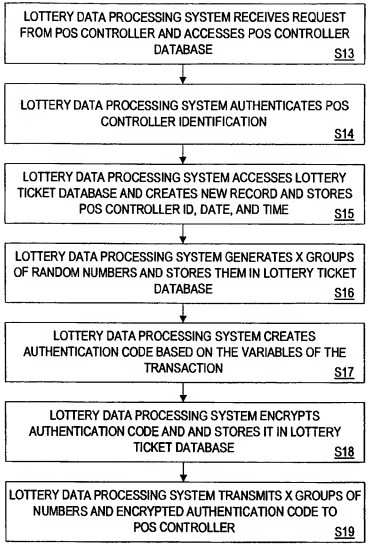

LOTTERY DATA PROCESSING SYSTEM RECEIVES REQUEST FROM POS CONTROLLER AND ACCESSES POS CONTROLLER DATABASE S13
LOTTERY DATA PROCESSING SYSTEM AUTHENTICATES POS CONTROLLER IDENTIFICATION S14
LOTTERY DATA PROCESSING SYSTEM ACCESSES LOTTERY TICKET DATABASE AND CREATES NEW RECORD AND STORES POS CONTROLLER ID, DATE, AND TIME S15
LOTTERY DATA PROCESSING SYSTEM GENERATES X GROUPS OF RANDOM NUMBERS AND STORES THEM IN LOTTERY TICKET DATABASE S16
LOTTERY DATA PROCESSING SYSTEM CREATES AUTHENTICATION CODE BASED ON THE VARIABLES OF THE TRANSACTION S17
LOTTERY DATA PROCESSING SYSTEM ENCRYPTS AUTHENTICATION CODE AND AND STORES IT IN LOTTERY TICKET DATABASE S18
LOTTERY DATA PROCESSING SYSTEM TRANSMITS X GROUPS OF NUMBERS AND ENCRYPTED AUTHENTICATION CODE TO POS CONTROLLER S19

FIG. 11

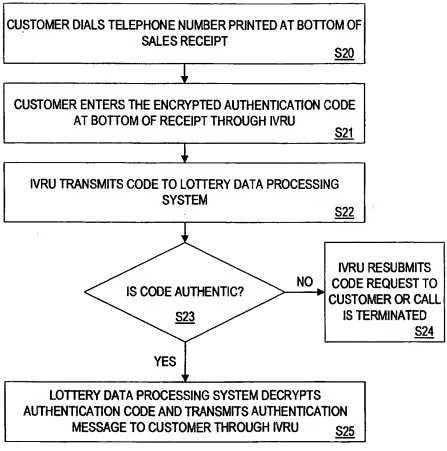

CUSTOMER DIALS TELEPHONE NUMBER PRINTED AT BOTTOM OF SALES RECEIPT
S20
CUSTOMER ENTERS THE ENCRYPTED AUTHENTICATION CODE AT BOTTOM OF RECEIPT THROUGH IVRU
S21
IVRU TRANSMITS CODE TO LOTTERY DATA PROCESSING SYSTEM
S22
IS CODE AUTHENTIC?
S23
NO
IVRU RESUBMITS CODE REQUEST TO CUSTOMER OR CALL IS TERMINATED
S24
YES
LOTTERY DATA PROCESSING SYSTEM DECRYPTS AUTHENTICATION CODE AND TRANSMITS AUTHENTICATION MESSAGE TO CUSTOMER THROUGH IVRU
S25

FIG. 12

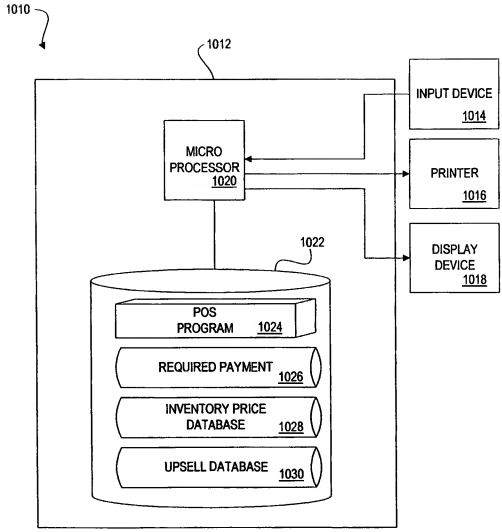

1010
1012
INPUT DEVICE
1014
MICRO
PROCESSOR
1020
PRINTER
1016
1022
DISPLAY
DEVICE
1018
POS
PROGRAM 1024
REQUIRED PAYMENT
1026
INVENTORY PRICE
DATABASE
1028
UPSELL DATABASE
1030

FIG. 13A

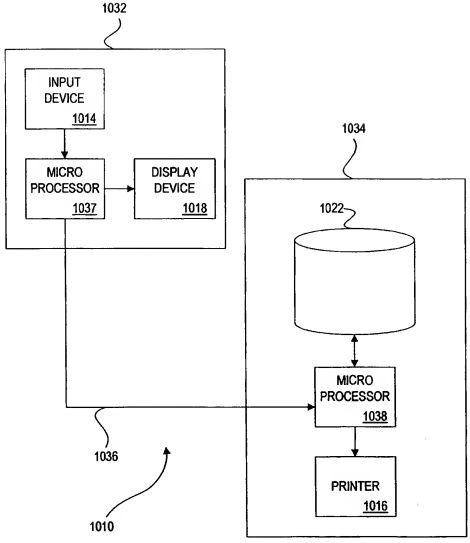

1032
INPUT DEVICE 1014
MICRO PROCESSOR 1037
DISPLAY DEVICE 1018
1034
1022
MICRO PROCESSOR 1038
PRINTER 1016
1036
1010

FIG. 13B

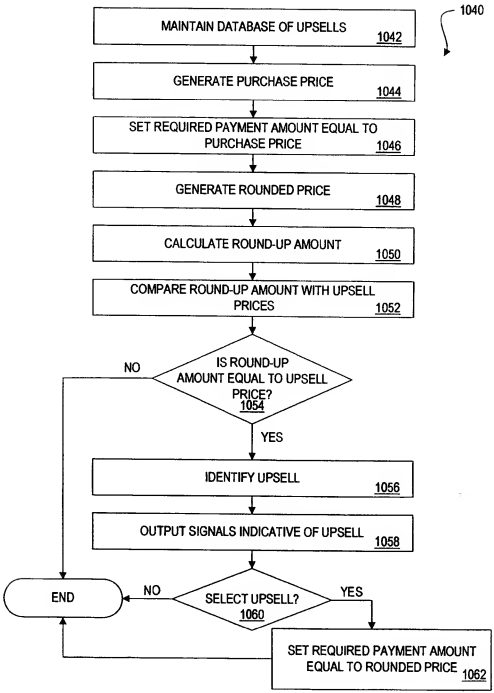

1040
MAINTAIN DATABASE OF UPSELLS 1042
GENERATE PURCHASE PRICE 1044
SET REQUIRED PAYMENT AMOUNT EQUAL TO PURCHASE PRICE 1046
GENERATE ROUNDED PRICE 1048
CALCULATE ROUND-UP AMOUNT 1050
COMPARE ROUND-UP AMOUNT WITH UPSELL PRICES 1052
IS ROUND-UP AMOUNT EQUAL TO UPSELL PRICE? 1054
NO
YES
IDENTIFY UPSELL 1056
OUTPUT SIGNALS INDICATIVE OF UPSELL 1058
SELECT UPSELL? 1060
NO
YES
END
SET REQUIRED PAYMENT AMOUNT EQUAL TO ROUNDED PRICE 1062

FIG. 14

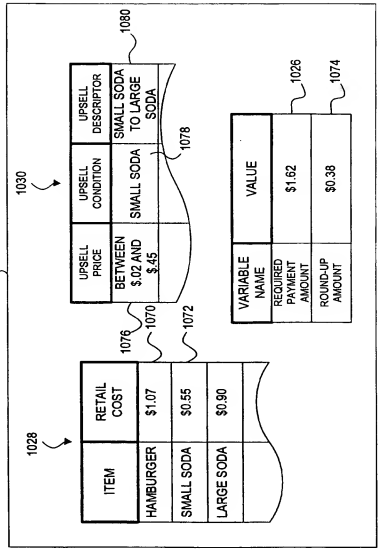

1022
1028
ITEM
RETAIL COST
HAMBURGER
$1.07
SMALL SODA
$0.55
LARGE SODA
$0.90
1076
1070
1072
1030
UPSELL PRICE
UPSELL CONDITION
UPSELL DESCRIPTOR
BETWEEN $.02 AND $.45
SMALL SODA
SMALL SODA TO LARGE SODA
1080
1078
VARIABLE NAME
VALUE
REQUIRED PAYMENT AMOUNT
$1.62
ROUND-UP AMOUNT
$0.38
1026
1074

FIG. 15

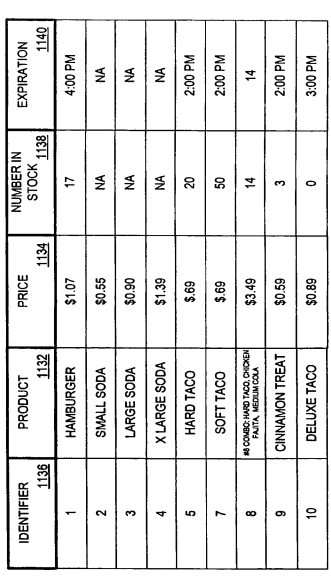
1090

UPSELL CODE(S) 1104	UPSELL PRICE 1092	ITEMS PURCHASED 1096	CUSTOMER ID REQUIRED? 1098	CUSTOMER PREFERENCES 1100	TIME PURCHASED 1102	COST 1103	UPSELL DESCRIPTOR 1094
A	BETWEEN $.02 AND $.45	SMALL SODA	NO	NA	NA	$0.02	SMALL SODA TO LARGE SODA
B	BETWEEN $.50 AND $.80	8	YES	NA	NA	$0.50	X LARGE COLA UPGRADE, DELUXE TACO UPGRADE, FREE TACO COUPON
C	MORE THAN $.70	NA	NO	NA	NA	$0.70	FREE TACO COUPON
D	BETWEEN $.30 AND $.70	HAMBURGER	NO	NA	NA	$0.25	PROMOTIONAL CUP
E	BETWEEN $1.50 AND $3.50	NA	YES	NA	> 5:00PM	$1.00	MOVIE TICKET
F	BETWEEN $.20 AND $.80	1,5	NO	NA	NA	$0.20	X LARGE COLA UPGRADE, DELUXE TACO UPGRADE
G	LESS THAN $.20	2	NO	NA	NA	$0.00	LARGE COLA UPGRADE
H	BETWEEN $.05 AND $.20	5	NO	NA	NA	$0.05	DELUXE TACO UPGRADE
I	LESS THAN $.50	3	YES	5, 7, 3	NA	$0.01	X LARGE COLA UPGRADE, FREE TACO COUPON

FIG. 16

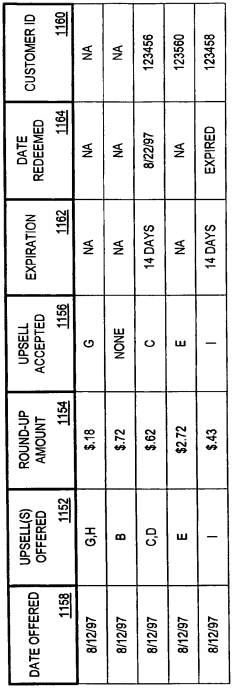
CUSTOMER ID 1112	CUSTOMER NAME 1114	ADDRESS 1116	PHONE 1118	HISTORICAL PREFERENCES 1120
123456	BILL SMITH	1425 HARD RD. NORWALK, CT 06805	(111)111-1111	BB
123457	JACK GREEN	213 PINK ST. NORWALK, CT 06850	(111)222-2222	NA
123458	ELIOT BROWN	21 CIRCLE DR. NORWALK, CT 06850	(111)333-3333	5,7,3,1

FIG. 17



IDENTIFIER 1136	PRODUCT 1132	PRICE 1134	NUMBER IN STOCK 1138	EXPIRATION 1140
1	HAMBURGER	$1.07	17	4:00 PM
2	SMALL SODA	$0.55	NA	NA
3	LARGE SODA	$0.90	NA	NA
4	X LARGE SODA	$1.39	NA	NA
5	HARD TACO	$.69	20	2:00 PM
7	SOFT TACO	$.69	50	2:00 PM
8	#8 COMBO: HARD TACO, CHICKEN PASTA, MEDIUM COLA	$3.49	14	14
9	CINNAMON TREAT	$0.59	3	2:00 PM
10	DELUXE TACO	$0.89	0	3:00 PM

FIG. 18



DATE OFFERED 1158	UPSELL(S) OFFERED 1152	ROUND-UP AMOUNT 1154	UPSELL ACCEPTED 1156	EXPIRATION 1162	DATE REDEEMED 1164	CUSTOMER ID 1160
8/12/97	G,H	$.18	G	NA	NA	NA
8/12/97	B	$.72	NONE	NA	NA	NA
8/12/97	C,D	$.62	C	14 DAYS	8/22/97	123456
8/12/97	E	$2.72	E	NA	NA	123560
8/12/97	I	$.43	I	14 DAYS	EXPIRED	123458

FIG. 19

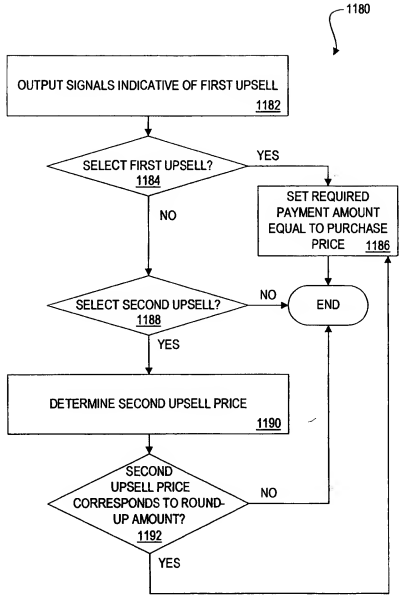

1180
OUTPUT SIGNALS INDICATIVE OF FIRST UPSELL
1182
SELECT FIRST UPSELL?
1184
YES
NO
SET REQUIRED PAYMENT AMOUNT EQUAL TO PURCHASE PRICE 1186
SELECT SECOND UPSELL?
1188
NO
END
YES
DETERMINE SECOND UPSELL PRICE
1190
SECOND UPSELL PRICE CORRESPONDS TO ROUND-UP AMOUNT?
1192
NO
YES

FIG. 20

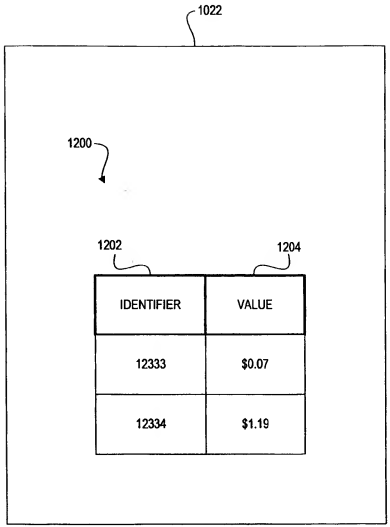


FIG. 21

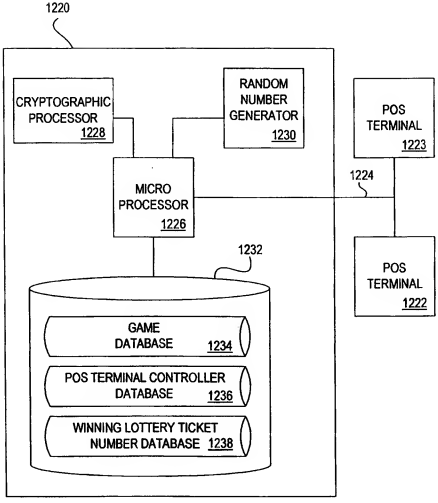

1220
CRYPTOGRAPHIC PROCESSOR 1228
RANDOM NUMBER GENERATOR 1230
POS TERMINAL 1223
1224
MICRO PROCESSOR 1226
1232
POS TERMINAL 1222
GAME DATABASE 1234
POS TERMINAL CONTROLLER DATABASE 1236
WINNING LOTTERY TICKET NUMBER DATABASE 1238

FIG. 22

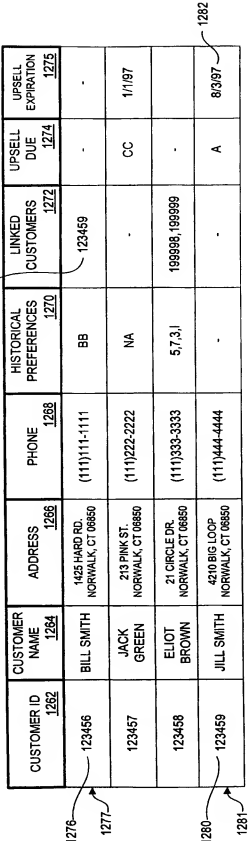

1260
1278
1282
1276
1277
1280
1281
CUSTOMER ID 1262
CUSTOMER NAME 1264
ADDRESS 1266
PHONE 1268
HISTORICAL PREFERENCES 1270
LINKED CUSTOMERS 1272
UPSELL DUE 1274
UPSELL EXPIRATION 1275
123456
BILL SMITH
1425 HARD RD. NORWALK, CT 06850
(111)111-1111
BB
123459
-
-
123457
JACK GREEN
213 PINK ST. NORWALK, CT 06850
(111)222-2222
NA
-
CC
1/1/97
123458
ELIOT BROWN
21 CIRCLE DR. NORWALK, CT 06850
(111)333-3333
5,7,3,1
199999,199999
-
123459
JILL SMITH
4210 BIG LOOP NORWALK, CT 06850
(111)444-4444
-
-
A
8/3/97

FIG. 23

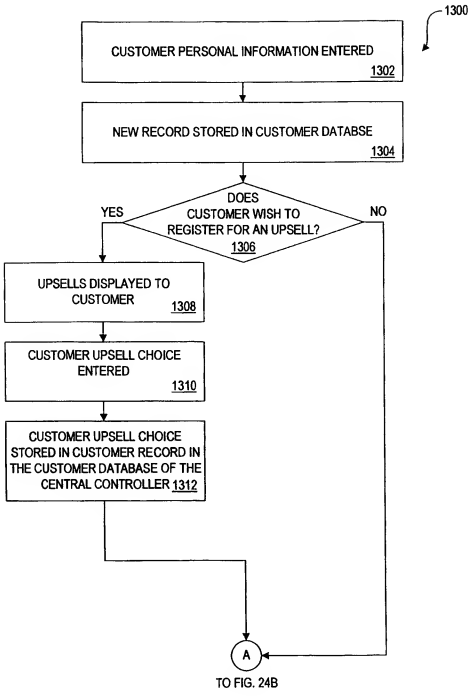

1300
CUSTOMER PERSONAL INFORMATION ENTERED
1302
NEW RECORD STORED IN CUSTOMER DATABSE
1304
DOES CUSTOMER WISH TO REGISTER FOR AN UPSELL?
1306
YES
NO
UPSELLS DISPLAYED TO CUSTOMER
1308
CUSTOMER UPSELL CHOICE ENTERED
1310
CUSTOMER UPSELL CHOICE STORED IN CUSTOMER RECORD IN THE CUSTOMER DATABASE OF THE CENTRAL CONTROLLER 1312
A
TO FIG. 24B

FIG. 24A

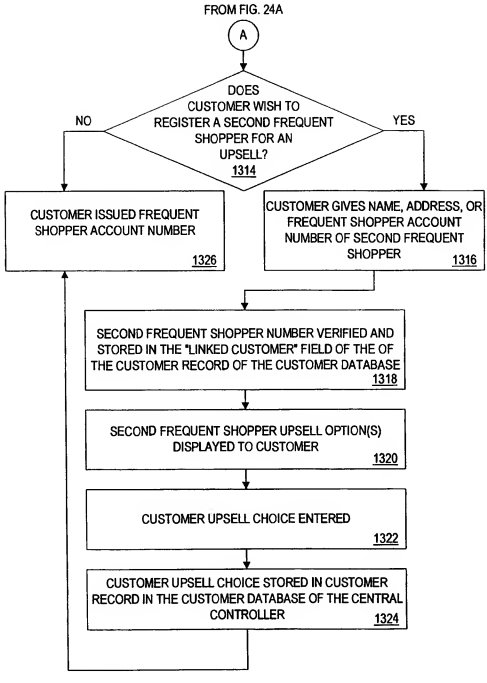

FROM FIG. 24A
A
DOES CUSTOMER WISH TO REGISTER A SECOND FREQUENT SHOPPER FOR AN UPSELL? 1314
NO
YES
CUSTOMER ISSUED FREQUENT SHOPPER ACCOUNT NUMBER 1326
CUSTOMER GIVES NAME, ADDRESS, OR FREQUENT SHOPPER ACCOUNT NUMBER OF SECOND FREQUENT SHOPPER 1316
SECOND FREQUENT SHOPPER NUMBER VERIFIED AND STORED IN THE "LINKED CUSTOMER" FIELD OF THE OF THE CUSTOMER RECORD OF THE CUSTOMER DATABASE 1318
SECOND FREQUENT SHOPPER UPSELL OPTION(S) DISPLAYED TO CUSTOMER 1320
CUSTOMER UPSELL CHOICE ENTERED 1322
CUSTOMER UPSELL CHOICE STORED IN CUSTOMER RECORD IN THE CUSTOMER DATABASE OF THE CENTRAL CONTROLLER 1324

FIG. 24B

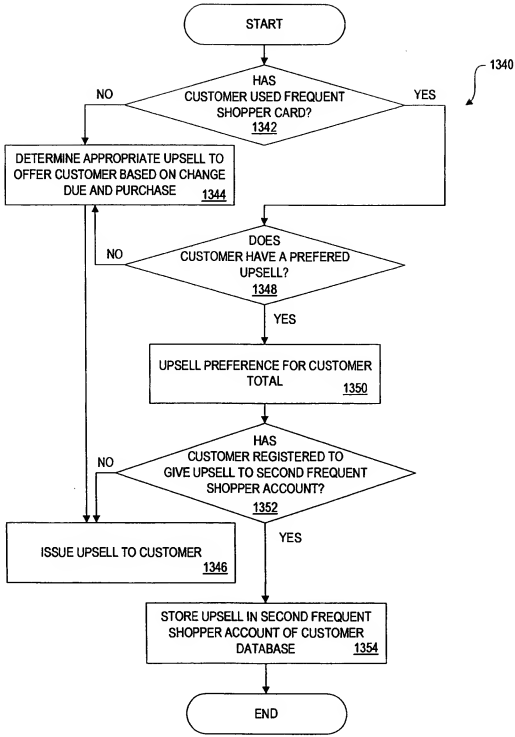

START
1340
HAS CUSTOMER USED FREQUENT SHOPPER CARD? 1342
NO
YES
DETERMINE APPROPRIATE UPSELL TO OFFER CUSTOMER BASED ON CHANGE DUE AND PURCHASE 1344
DOES CUSTOMER HAVE A PREFERED UPSELL? 1348
NO
YES
UPSELL PREFERENCE FOR CUSTOMER TOTAL 1350
HAS CUSTOMER REGISTERED TO GIVE UPSELL TO SECOND FREQUENT SHOPPER ACCOUNT? 1352
NO
YES
ISSUE UPSELL TO CUSTOMER 1346
STORE UPSELL IN SECOND FREQUENT SHOPPER ACCOUNT OF CUSTOMER DATABASE 1354
END

FIG. 25

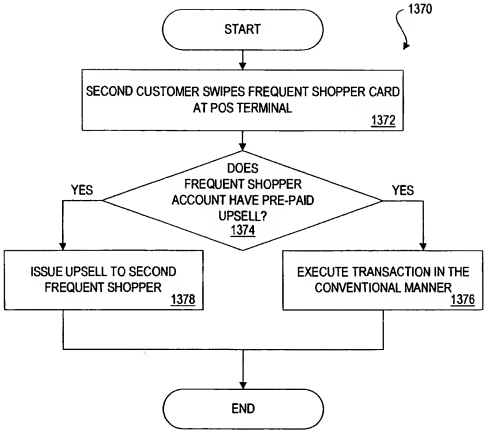

1370
START
SECOND CUSTOMER SWIPES FREQUENT SHOPPER CARD AT POS TERMINAL
1372
DOES FREQUENT SHOPPER ACCOUNT HAVE PRE-PAID UPSELL?
1374
YES
YES
ISSUE UPSELL TO SECOND FREQUENT SHOPPER
1378
EXECUTE TRANSACTION IN THE CONVENTIONAL MANNER
1376
END

FIG. 26

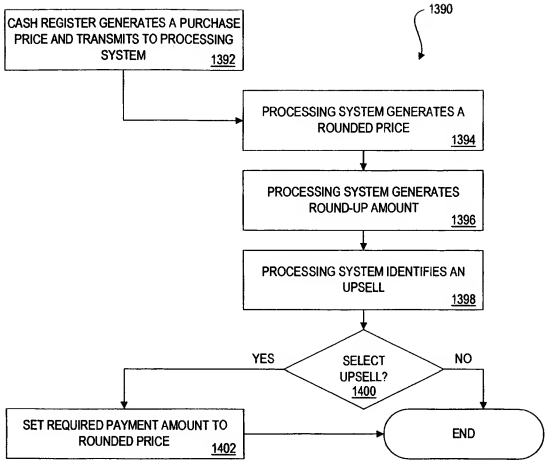

1390
CASH REGISTER GENERATES A PURCHASE PRICE AND TRANSMITS TO PROCESSING SYSTEM
1392
PROCESSING SYSTEM GENERATES A ROUNDED PRICE
1394
PROCESSING SYSTEM GENERATES ROUND-UP AMOUNT
1396
PROCESSING SYSTEM IDENTIFIES AN UPSELL
1398
SELECT UPSELL?
1400
YES
NO
SET REQUIRED PAYMENT AMOUNT TO ROUNDED PRICE
1402
END

FIG. 27

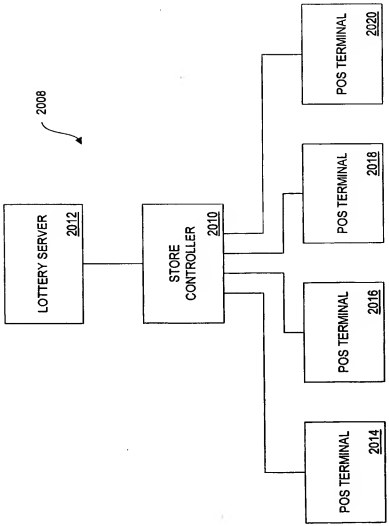

2008
LOTTERY SERVER
2012
STORE
CONTROLLER
2010
POS TERMINAL
2014
POS TERMINAL
2016
POS TERMINAL
2018
POS TERMINAL
2020

FIG. 28

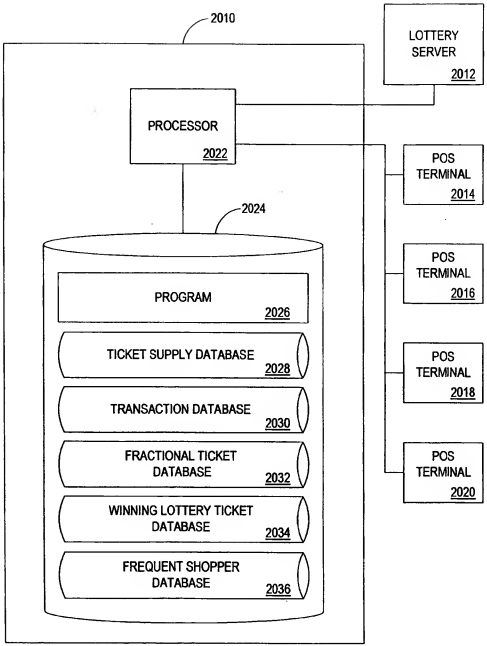

2010
LOTTERY SERVER 2012
PROCESSOR 2022
POS TERMINAL 2014
POS TERMINAL 2016
POS TERMINAL 2018
POS TERMINAL 2020
2024
PROGRAM 2026
TICKET SUPPLY DATABASE 2028
TRANSACTION DATABASE 2030
FRACTIONAL TICKET DATABASE 2032
WINNING LOTTERY TICKET DATABASE 2034
FREQUENT SHOPPER DATABASE 2036

FIG. 29

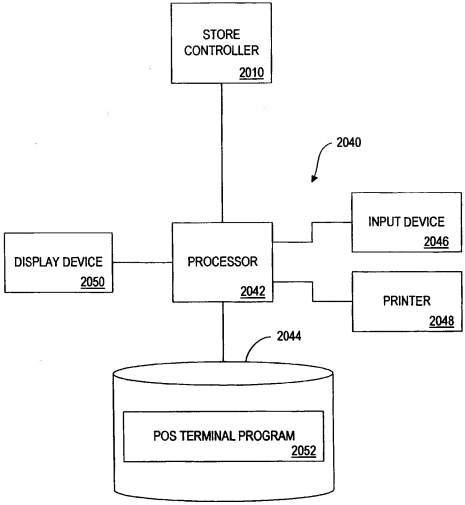

STORE CONTROLLER
2010
2040
INPUT DEVICE
2046
DISPLAY DEVICE
2050
PROCESSOR
2042
PRINTER
2048
2044
POS TERMINAL PROGRAM
2052

FIG. 30

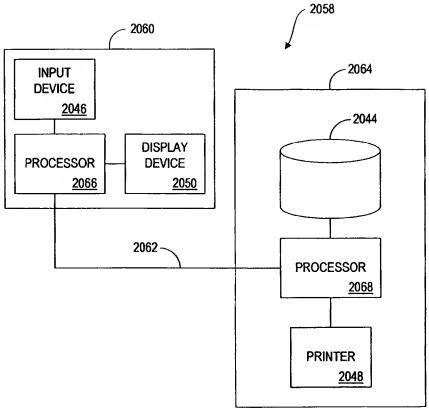

2058
2060
INPUT DEVICE 2046
PROCESSOR 2066
DISPLAY DEVICE 2050
2062
2064
2044
PROCESSOR 2068
PRINTER 2048

FIG. 31

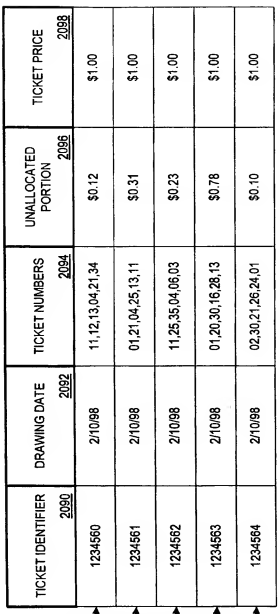

2030
TICKET IDENTIFIER 2090
DRAWING DATE 2092
TICKET NUMBERS 2094
UNALLOCATED PORTION 2096
TICKET PRICE 2098
2080
1234560
2/10/98
11,12,13,04,21,34
$0.12
$1.00
2082
1234561
2/10/98
01,21,04,25,13,11
$0.31
$1.00
2084
1234562
2/10/98
11,25,35,04,05,03
$0.23
$1.00
2086
1234563
2/10/98
01,20,30,16,28,13
$0.78
$1.00
2088
1234564
2/10/98
02,30,21,26,24,01
$0.10
$1.00
2100
TOTAL REMAINING UNALLOCATED AMOUNT
$1.54

FIG. 32

2110

TICKET IDENTIFIER	DRAWING DATE	TICKET NUMBERS	UNALLOCATED PORTION	TICKET PRICE
1234560	2/10/98	11,12,13,04, 21,34	$0.12	$1.00
1234561	2/10/98	01,21,04,25, 13,11	$0.31	$1.00
1234562	2/10/98	11,25,35,04, 06,03	$0.23	$1.00
1234563	2/10/98	01,20,30,16, 28,13	$0.78	$1.00
1234564	2/10/98	02,30,21,26, 24,01	$0.10	$1.00

2135

TOTAL REMAINING UNALLOCATED AMOUNT	$1.54

ROUND UP AMOUNT	$0.35

2130

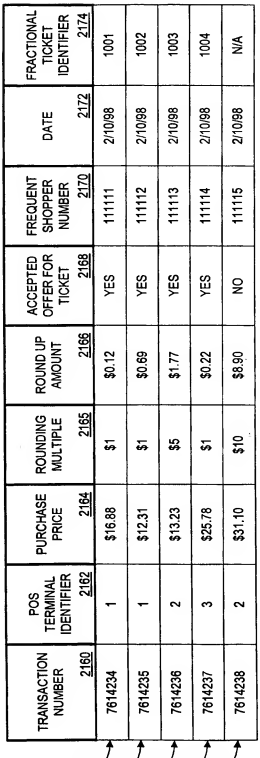
2120

TICKET IDENTIFIER	DRAWING DATE	TICKET NUMBERS	UNALLOCATED PORTION	TICKET PRICE
1234560	2/10/98	11,12,13,04, 21,34	$0.12	$1.00
1234561	2/10/98	01,21,04,25, 13,11	$0.31	$1.00
1234562	2/10/98	11,25,35,04, 06,03	$0.23	$1.00
1234563	2/10/98	01,20,30,16, 28,13	$0.43	$1.00
1234564	2/10/98	02,30,21,26, 24,01	$0.10	$1.00

2140

TOTAL REMAINING UNALLOCATED AMOUNT	$1.19

FIG. 33



TRANSACTION NUMBER 2160	POS TERMINAL IDENTIFIER 2162	PURCHASE PRICE 2164	ROUNDING MULTIPLE 2165	ROUND UP AMOUNT 2166	ACCEPTED OFFER FOR TICKET 2168	FREQUENT SHOPPER NUMBER 2170	DATE 2172	FRACTIONAL TICKET IDENTIFIER 2174
7614234	1	$16.88	$1	$0.12	YES	111111	2/10/98	1001
7614235	1	$12.31	$1	$0.69	YES	111112	2/10/98	1002
7614236	2	$13.23	$5	$1.77	YES	111113	2/10/98	1003
7614237	3	$25.78	$1	$0.22	YES	111114	2/10/98	1004
7614238	2	$31.10	$10	$8.90	NO	111115	2/10/98	N/A

FIG. 34

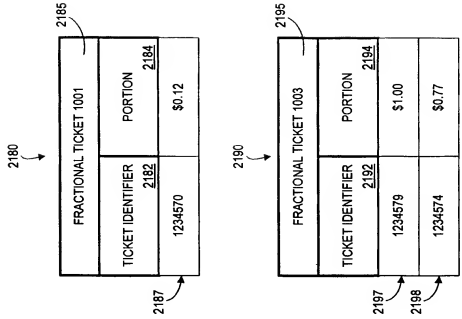

2180
2185
FRACTIONAL TICKET 1001
TICKET IDENTIFIER 2182
PORTION 2184
1234570
$0.12
2187
2190
2195
FRACTIONAL TICKET 1003
TICKET IDENTIFIER 2192
PORTION 2194
1234579
$1.00
1234574
$0.77
2197
2198

FIG. 35

2200

	TICKET IDENTIFIER	DRAWING DATE	TICKET NUMBERS	UNALLOCATED PORTION	TICKET PRICE
2202	1234000	2/17/98	12,21,28, 35,38,40	$0.55	$1.00
2204	1234001	2/17/98	5,15,25, 35,40,41	$0.83	$1.00
2206	1234002	2/17/98	2,8,14, 26,39,42	$0.95	$1.00
2208	123003	2/17/98	10,19,24, 29,36,39	$0.61	$1.00

TOTAL REMAINING UNALLOCATED AMOUNT	$2.94

2220

ROUND UP AMOUNT	$0.60

FIG. 36

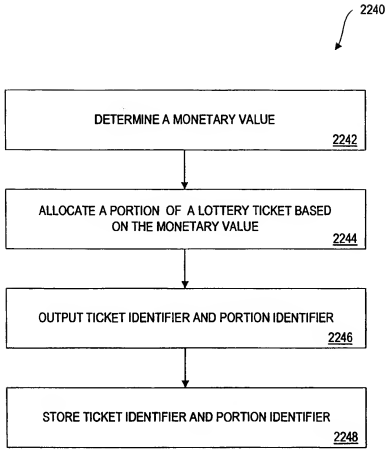

2240
DETERMINE A MONETARY VALUE
2242
ALLOCATE A PORTION OF A LOTTERY TICKET BASED ON THE MONETARY VALUE
2244
OUTPUT TICKET IDENTIFIER AND PORTION IDENTIFIER
2246
STORE TICKET IDENTIFIER AND PORTION IDENTIFIER
2248

FIG. 37

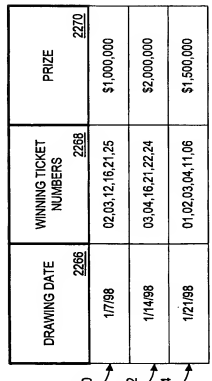

2036
DRAWING DATE
2266
WINNING TICKET NUMBERS
2268
PRIZE
2270
2260
1/7/98
02,03,12,16,21,25
$1,000,000
2262
1/14/98
03,04,16,21,22,24
$2,000,000
2264
1/21/98
01,02,03,04,11,06
$1,500,000

FIG. 38

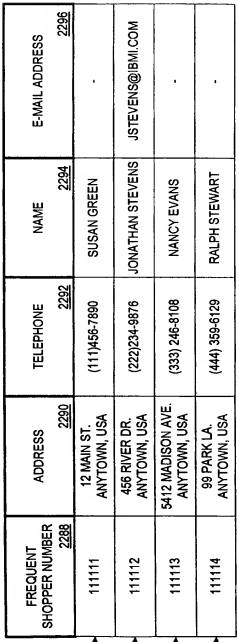

2038
2280
2282
2284
2286
FREQUENT SHOPPER NUMBER 2288
ADDRESS 2290
TELEPHONE 2292
NAME 2294
E-MAIL ADDRESS 2296
111111
12 MAIN ST. ANYTOWN, USA
(111)456-7890
SUSAN GREEN
-
111112
456 RIVER DR. ANYTOWN, USA
(222)234-9876
JONATHAN STEVENS
JSTEVENS@IBMI.COM
111113
5412 MADISON AVE. ANYTOWN, USA
(333) 246-8108
NANCY EVANS
-
111114
99 PARK LA. ANYTOWN, USA
(444) 359-6129
RALPH STEWART
-

FIG. 39

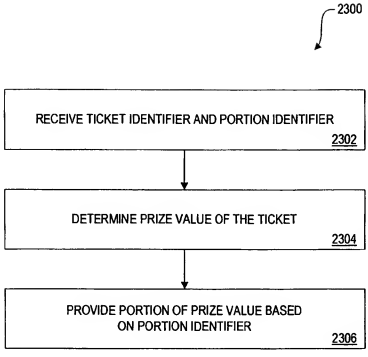

2300
RECEIVE TICKET IDENTIFIER AND PORTION IDENTIFIER
2302
DETERMINE PRIZE VALUE OF THE TICKET
2304
PROVIDE PORTION OF PRIZE VALUE BASED ON PORTION IDENTIFIER
2306

FIG. 40

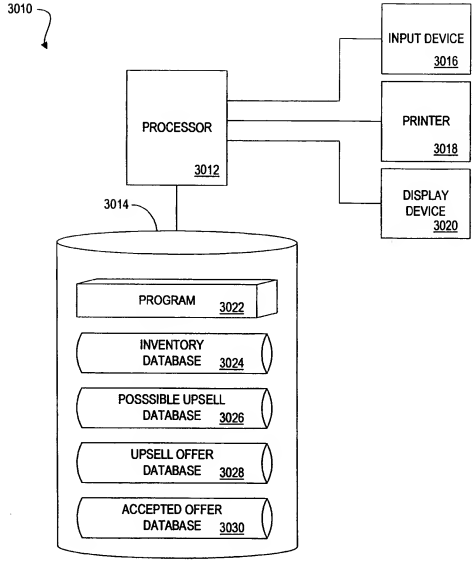

3010
INPUT DEVICE
3016
PROCESSOR
3012
PRINTER
3018
DISPLAY DEVICE
3020
3014
PROGRAM
3022
INVENTORY DATABASE
3024
POSSSIBLE UPSELL DATABASE
3026
UPSELL OFFER DATABASE
3028
ACCEPTED OFFER DATABASE
3030

FIG. 41

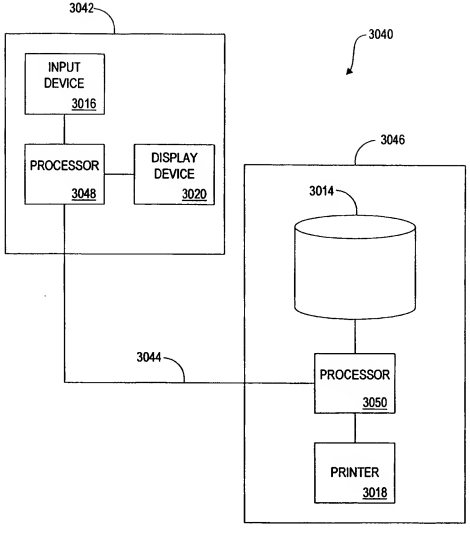

3042
3040
INPUT DEVICE 3016
PROCESSOR 3048
DISPLAY DEVICE 3020
3046
3014
3044
PROCESSOR 3050
PRINTER 3018

FIG. 42

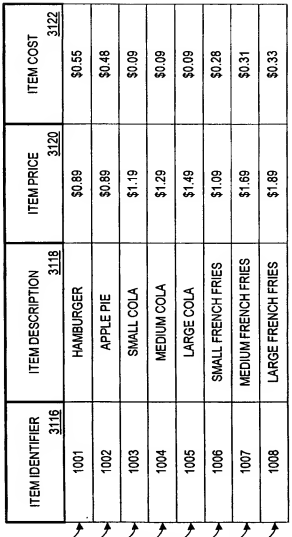

3024
ITEM IDENTIFIER 3116
ITEM DESCRIPTION 3118
ITEM PRICE 3120
ITEM COST 3122
3100
3102
3104
3106
3108
3110
3112
3114
1001
HAMBURGER
$0.89
$0.55
1002
APPLE PIE
$0.89
$0.48
1003
SMALL COLA
$1.19
$0.09
1004
MEDIUM COLA
$1.29
$0.09
1005
LARGE COLA
$1.49
$0.09
1006
SMALL FRENCH FRIES
$1.09
$0.28
1007
MEDIUM FRENCH FRIES
$1.69
$0.31
1008
LARGE FRENCH FRIES
$1.89
$0.33

FIG. 43

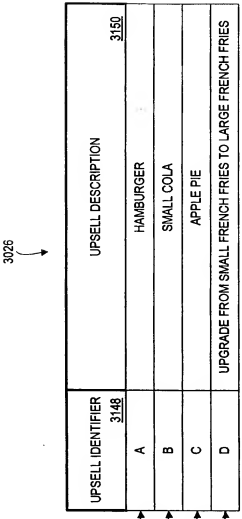

3026
UPSELL IDENTIFIER 3148
UPSELL DESCRIPTION 3150
A
HAMBURGER
B
SMALL COLA
C
APPLE PIE
D
UPGRADE FROM SMALL FRENCH FRIES TO LARGE FRENCH FRIES
3140
3142
3144
3146

FIG. 44

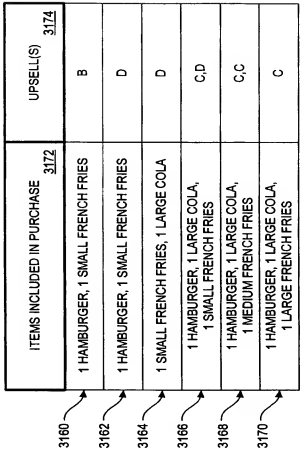

3155
ITEMS INCLUDED IN PURCHASE 3172
UPSELL(S) 3174
3160
1 HAMBURGER, 1 SMALL FRENCH FRIES
B
3162
1 HAMBURGER, 1 SMALL FRENCH FRIES
D
3164
1 SMALL FRENCH FRIES, 1 LARGE COLA
D
3166
1 HAMBURGER, 1 LARGE COLA, 1 SMALL FRENCH FRIES
C,D
3168
1 HAMBURGER, 1 LARGE COLA, 1 MEDIUM FRENCH FRIES
C,C
3170
1 HAMBURGER, 1 LARGE COLA, 1 LARGE FRENCH FRIES
C

FIG. 45

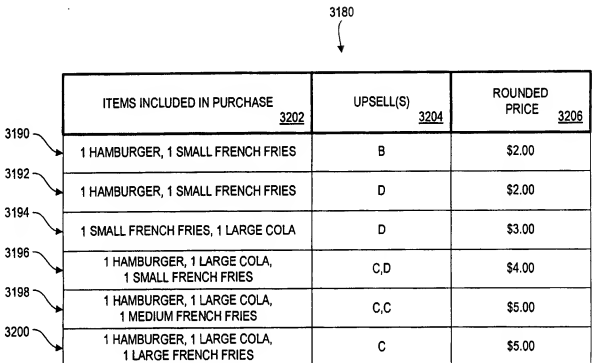

3180
ITEMS INCLUDED IN PURCHASE 3202
UPSELL(S) 3204
ROUNDED PRICE 3206
3190
1 HAMBURGER, 1 SMALL FRENCH FRIES
B
$2.00
3192
1 HAMBURGER, 1 SMALL FRENCH FRIES
D
$2.00
3194
1 SMALL FRENCH FRIES, 1 LARGE COLA
D
$3.00
3196
1 HAMBURGER, 1 LARGE COLA, 1 SMALL FRENCH FRIES
C,D
$4.00
3198
1 HAMBURGER, 1 LARGE COLA, 1 MEDIUM FRENCH FRIES
C,C
$5.00
3200
1 HAMBURGER, 1 LARGE COLA, 1 LARGE FRENCH FRIES
C
$5.00

FIG. 46

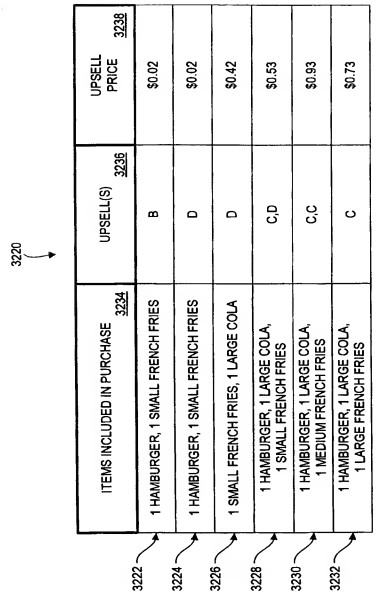

3220
ITEMS INCLUDED IN PURCHASE 3234
UPSELL(S) 3236
UPSELL PRICE 3238
1 HAMBURGER, 1 SMALL FRENCH FRIES
B
$0.02
1 HAMBURGER, 1 SMALL FRENCH FRIES
D
$0.02
1 SMALL FRENCH FRIES, 1 LARGE COLA
D
$0.42
1 HAMBURGER, 1 LARGE COLA, 1 SMALL FRENCH FRIES
C,D
$0.53
1 HAMBURGER, 1 LARGE COLA, 1 MEDIUM FRENCH FRIES
C,C
$0.93
1 HAMBURGER, 1 LARGE COLA, 1 LARGE FRENCH FRIES
C
$0.73
3222
3224
3226
3228
3230
3232

FIG. 47

3250

	ITEMS INCLUDED IN PURCHASE 3264	UPSELL(S) 3266	ROUNDING MULTIPLE 3268
3252	1 HAMBURGER, 1 SMALL FRENCH FRIES	B	$1.00
3254	1 HAMBURGER, 1 SMALL FRENCH FRIES	D	$1.00
3256	1 SMALL FRENCH FRIES, 1 LARGE COLA	D	$1.00
3258	1 HAMBURGER, 1 LARGE COLA, 1 SMALL FRENCH FRIES	C,D	$1.00
3260	1 HAMBURGER, 1 LARGE COLA, 1 MEDIUM FRENCH FRIES	C,C	$1.00
3262	1 HAMBURGER, 1 LARGE COLA, 1 LARGE FRENCH FRIES	C	$1.00

FIG. 48

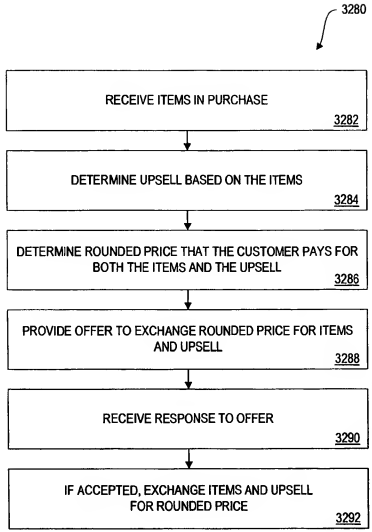

3280
RECEIVE ITEMS IN PURCHASE
3282
DETERMINE UPSELL BASED ON THE ITEMS
3284
DETERMINE ROUNDED PRICE THAT THE CUSTOMER PAYS FOR BOTH THE ITEMS AND THE UPSELL
3286
PROVIDE OFFER TO EXCHANGE ROUNDED PRICE FOR ITEMS AND UPSELL
3288
RECEIVE RESPONSE TO OFFER
3290
IF ACCEPTED, EXCHANGE ITEMS AND UPSELL FOR ROUNDED PRICE
3292

FIG. 49

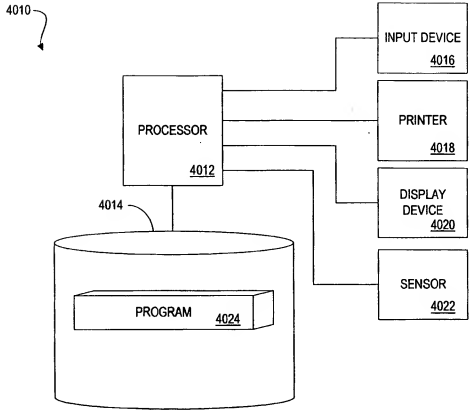

4010
INPUT DEVICE
4016
PROCESSOR
4012
PRINTER
4018
DISPLAY
DEVICE
4020
4014
SENSOR
4022
PROGRAM
4024

FIG. 50

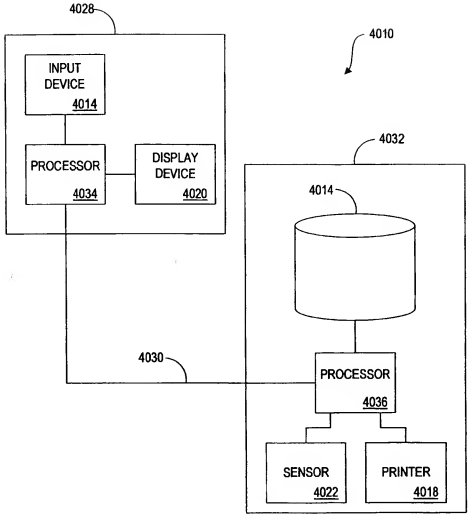

4028
4010
INPUT DEVICE
4014
PROCESSOR
4034
DISPLAY DEVICE
4020
4032
4014
4030
PROCESSOR
4036
SENSOR
4022
PRINTER
4018

FIG. 51

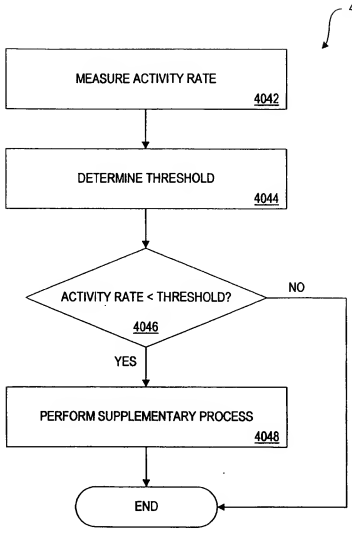

4040
MEASURE ACTIVITY RATE
4042
DETERMINE THRESHOLD
4044
ACTIVITY RATE < THRESHOLD?
4046
NO
YES
PERFORM SUPPLEMENTARY PROCESS
4048
END

FIG. 52

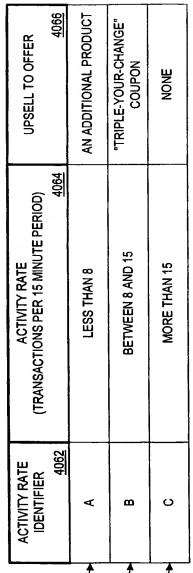

4060
ACTIVITY RATE IDENTIFIER 4062
ACTIVITY RATE (TRANSACTIONS PER 15 MINUTE PERIOD) 4064
UPSELL TO OFFER 4066
4068
A
LESS THAN 8
AN ADDITIONAL PRODUCT
4070
B
BETWEEN 8 AND 15
"TRIPLE-YOUR-CHANGE" COUPON
4072
C
MORE THAN 15
NONE

FIG. 53

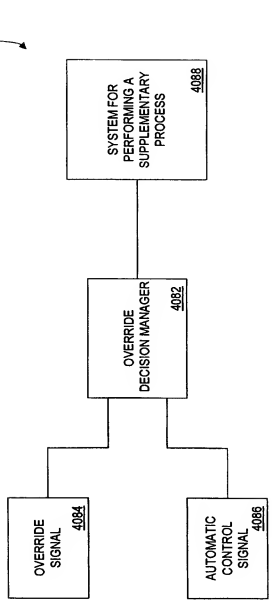

4080
SYSTEM FOR PERFORMING A SUPPLEMENTARY PROCESS
4088
OVERRIDE DECISION MANAGER
4082
OVERRIDE SIGNAL
4084
AUTOMATIC CONTROL SIGNAL
4086

FIG. 54

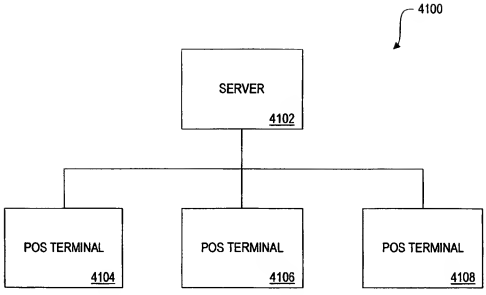

4100
SERVER
4102
POS TERMINAL
4104
POS TERMINAL
4106
POS TERMINAL
4108

FIG. 55

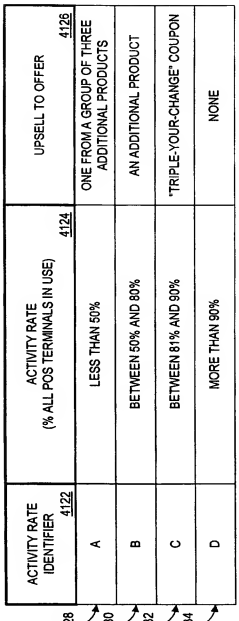

4120
ACTIVITY RATE IDENTIFIER 4122
ACTIVITY RATE (% ALL POS TERMINALS IN USE) 4124
UPSELL TO OFFER 4126
4128
A
LESS THAN 50%
ONE FROM A GROUP OF THREE ADDITIONAL PRODUCTS
4130
B
BETWEEN 50% AND 80%
AN ADDITIONAL PRODUCT
4132
C
BETWEEN 81% AND 90%
"TRIPLE-YOUR-CHANGE" COUPON
4134
D
MORE THAN 90%
NONE

FIG. 56

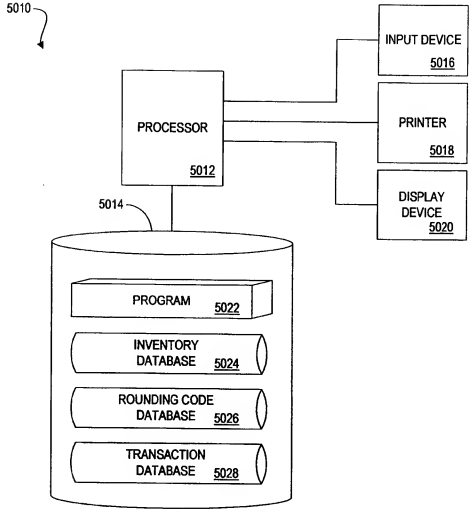

5010
INPUT DEVICE
5016
PROCESSOR
5012
PRINTER
5018
DISPLAY
DEVICE
5020
5014
PROGRAM
5022
INVENTORY
DATABASE
5024
ROUNDING CODE
DATABASE
5026
TRANSACTION
DATABASE
5028

FIG. 57

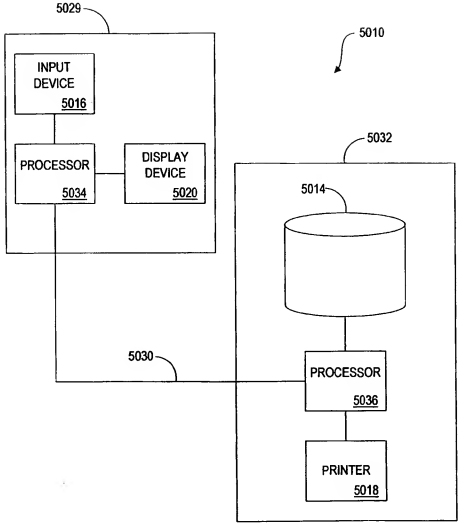

5029
INPUT DEVICE 5016
PROCESSOR 5034
DISPLAY DEVICE 5020
5010
5032
5014
5030
PROCESSOR 5036
PRINTER 5018

FIG. 58

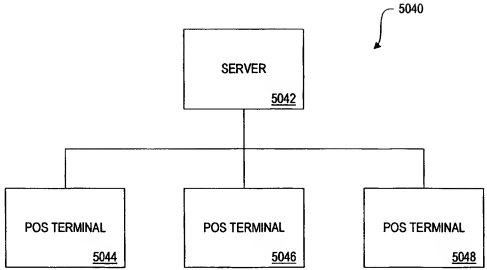

5040
SERVER
5042
POS TERMINAL
5044
POS TERMINAL
5046
POS TERMINAL
5048

FIG. 59

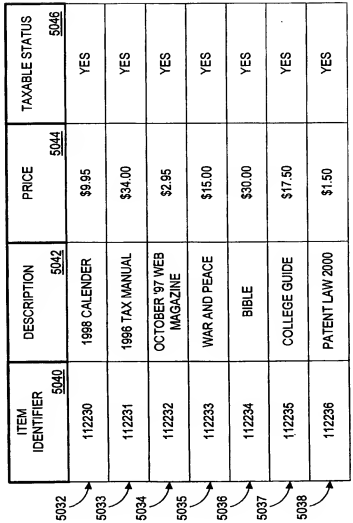

5024
ITEM IDENTIFIER 5040
DESCRIPTION 5042
PRICE 5044
TAXABLE STATUS 5046
5032
112230
1998 CALENDER
$9.95
YES
5033
112231
1998 TAX MANUAL
$34.00
YES
5034
112232
OCTOBER '97 WEB MAGAZINE
$2.95
YES
5035
112233
WAR AND PEACE
$15.00
YES
5036
112234
BIBLE
$30.00
YES
5037
112235
COLLEGE GUIDE
$17.50
YES
5038
112236
PATENT LAW 2000
$1.50
YES

FIG. 60

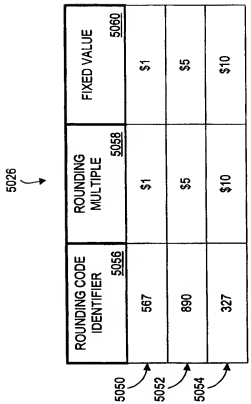

5026
ROUNDING CODE IDENTIFIER 5056
ROUNDING MULTIPLE 5058
FIXED VALUE 5060
5050
567
$1
$1
5052
890
$5
$5
5054
327
$10
$10

FIG. 61

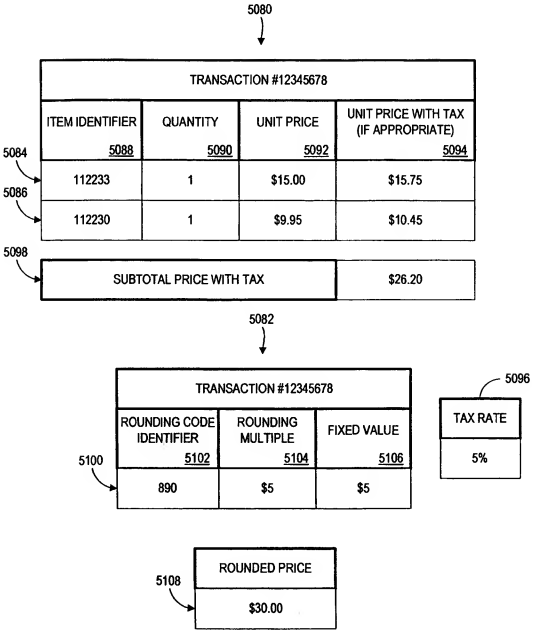

5080
TRANSACTION #12345678
ITEM IDENTIFIER 5088
QUANTITY 5090
UNIT PRICE 5092
UNIT PRICE WITH TAX (IF APPROPRIATE) 5094
5084
5086
112233
1
$15.00
$15.75
112230
1
$9.95
$10.45
5098
SUBTOTAL PRICE WITH TAX
$26.20
5082
TRANSACTION #12345678
ROUNDING CODE IDENTIFIER 5102
ROUNDING MULTIPLE 5104
FIXED VALUE 5106
5100
890
$5
$5
5096
TAX RATE
5%
5108
ROUNDED PRICE
$30.00

FIG. 62

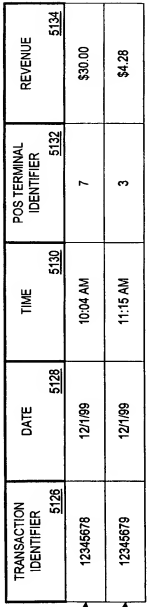

5120
TRANSACTION IDENTIFIER 5126
DATE 5128
TIME 5130
POS TERMINAL IDENTIFIER 5132
REVENUE 5134
5122
12345678
12/1/99
10:04 AM
7
$30.00
5124
12345679
12/1/99
11:15 AM
3
$4.28

FIG. 63

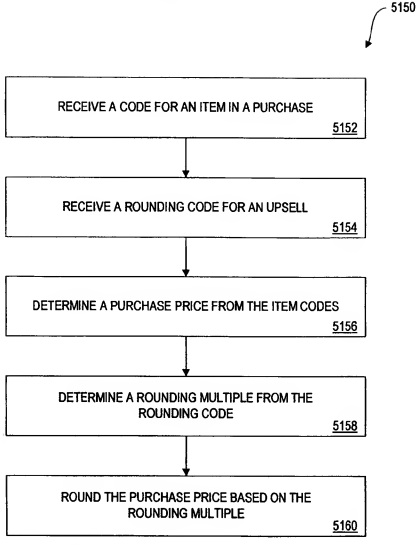

5150
RECEIVE A CODE FOR AN ITEM IN A PURCHASE
5152
RECEIVE A ROUNDING CODE FOR AN UPSELL
5154
DETERMINE A PURCHASE PRICE FROM THE ITEM CODES
5156
DETERMINE A ROUNDING MULTIPLE FROM THE ROUNDING CODE
5158
ROUND THE PURCHASE PRICE BASED ON THE ROUNDING MULTIPLE
5160

FIG. 64

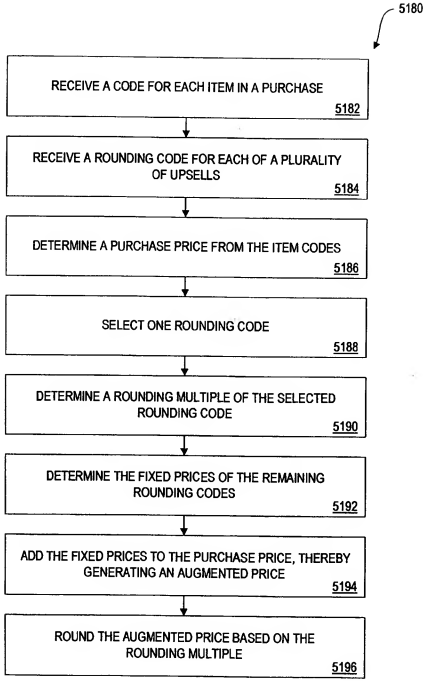

5180
RECEIVE A CODE FOR EACH ITEM IN A PURCHASE
5182
RECEIVE A ROUNDING CODE FOR EACH OF A PLURALITY OF UPSELLS
5184
DETERMINE A PURCHASE PRICE FROM THE ITEM CODES
5186
SELECT ONE ROUNDING CODE
5188
DETERMINE A ROUNDING MULTIPLE OF THE SELECTED ROUNDING CODE
5190
DETERMINE THE FIXED PRICES OF THE REMAINING ROUNDING CODES
5192
ADD THE FIXED PRICES TO THE PURCHASE PRICE, THEREBY GENERATING AN AUGMENTED PRICE
5194
ROUND THE AUGMENTED PRICE BASED ON THE ROUNDING MULTIPLE
5196

FIG. 65

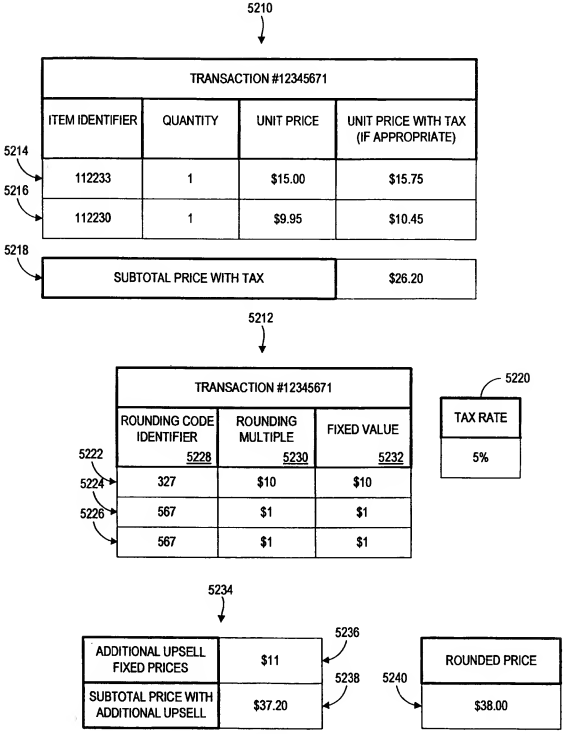

5210
TRANSACTION #12345671
ITEM IDENTIFIER
QUANTITY
UNIT PRICE
UNIT PRICE WITH TAX (IF APPROPRIATE)
5214
112233
1
$15.00
$15.75
5216
112230
1
$9.95
$10.45
5218
SUBTOTAL PRICE WITH TAX
$26.20
5212
TRANSACTION #12345671
ROUNDING CODE IDENTIFIER 5228
ROUNDING MULTIPLE 5230
FIXED VALUE 5232
5222
5224
5226
327
$10
$10
567
$1
$1
567
$1
$1
5220
TAX RATE
5%
5234
ADDITIONAL UPSELL FIXED PRICES
$11
5236
SUBTOTAL PRICE WITH ADDITIONAL UPSELL
$37.20
5238
5240
ROUNDED PRICE
$38.00

FIG. 66

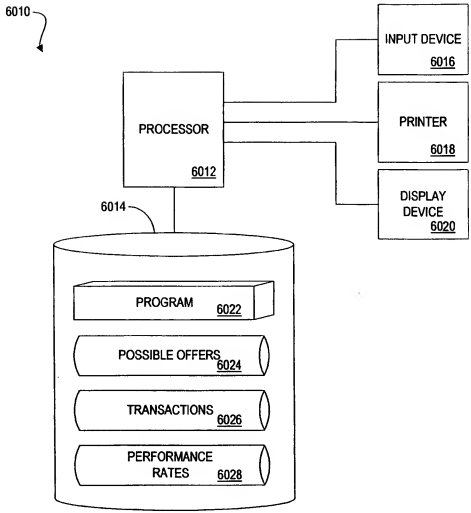

6010
INPUT DEVICE
6016
PROCESSOR
6012
PRINTER
6018
DISPLAY
DEVICE
6020
6014
PROGRAM
6022
POSSIBLE OFFERS
6024
TRANSACTIONS
6026
PERFORMANCE
RATES
6028

FIG. 67

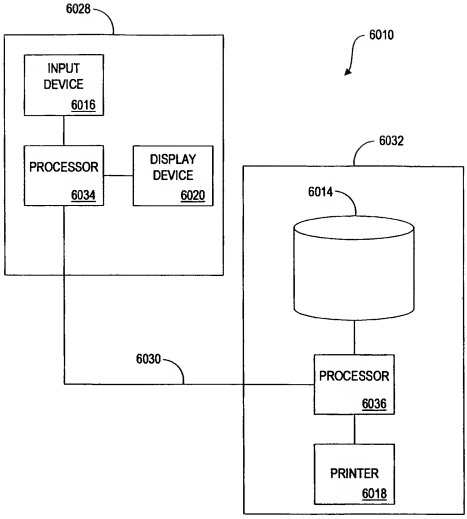

6028
6010
INPUT DEVICE
6016
PROCESSOR
6034
DISPLAY DEVICE
6020
6032
6014
6030
PROCESSOR
6036
PRINTER
6018

FIG. 68

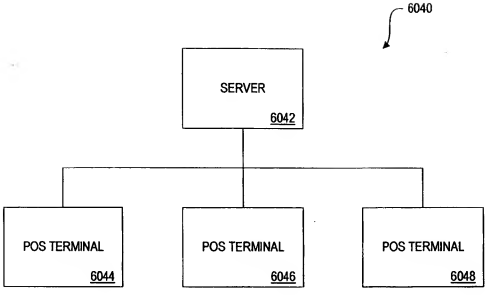

6040
SERVER
6042
POS TERMINAL
6044
POS TERMINAL
6046
POS TERMINAL
6048

FIG. 69

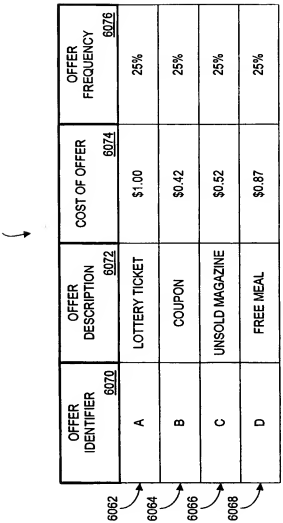

6060
OFFER IDENTIFIER 6070
OFFER DESCRIPTION 6072
COST OF OFFER 6074
OFFER FREQUENCY 6076
6062
A
LOTTERY TICKET
$1.00
25%
6064
B
COUPON
$0.42
25%
6066
C
UNSOLD MAGAZINE
$0.52
25%
6068
D
FREE MEAL
$0.87
25%

FIG. 70

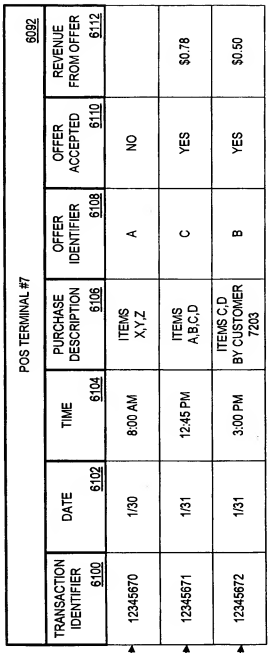

6090
POS TERMINAL #7
6092
TRANSACTION IDENTIFIER 6100
DATE 6102
TIME 6104
PURCHASE DESCRIPTION 6106
OFFER IDENTIFIER 6108
OFFER ACCEPTED 6110
REVENUE FROM OFFER 6112
6094
12345670
1/30
8:00 AM
ITEMS X,Y,Z
A
NO
6096
12345671
1/31
12:45 PM
ITEMS A,B,C,D
C
YES
$0.78
6098
12345672
1/31
3:00 PM
ITEMS C,D BY CUSTOMER 7203
B
YES
$0.50

FIG. 71

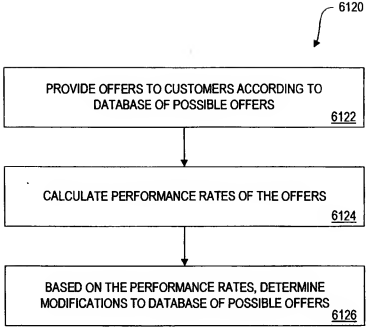

6120
PROVIDE OFFERS TO CUSTOMERS ACCORDING TO DATABASE OF POSSIBLE OFFERS
6122
CALCULATE PERFORMANCE RATES OF THE OFFERS
6124
BASED ON THE PERFORMANCE RATES, DETERMINE MODIFICATIONS TO DATABASE OF POSSIBLE OFFERS
6126

FIG. 72

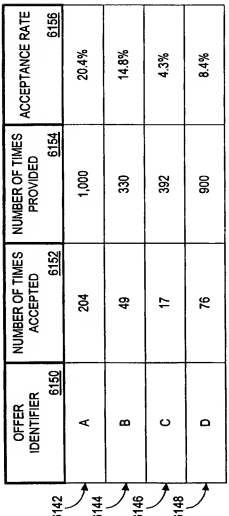
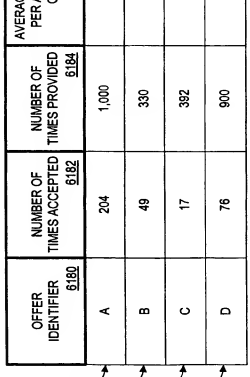

6140
OFFER IDENTIFIER 6150
NUMBER OF TIMES ACCEPTED 6152
NUMBER OF TIMES PROVIDED 6154
ACCEPTANCE RATE 6156
6142
A
204
1,000
20.4%
6144
B
49
330
14.8%
6146
C
17
392
4.3%
6148
D
76
900
8.4%

FIG. 73



OFFER IDENTIFIER 6180	NUMBER OF TIMES ACCEPTED 6182	NUMBER OF TIMES PROVIDED 6184	AVERAGE REVENUE PER ACCEPTED OFFER 6186	AVERAGE PROFIT PER ACCEPTED OFFER 6188	AVERAGE PROFIT PER OFFER 6190
A	204	1,000	$1.50	$0.50	$0.102
B	49	330	$0.78	$0.36	$0.053
C	17	382	$1.00	$0.48	$0.021
D	76	900	$0.95	$0.08	$0.007

FIG. 74

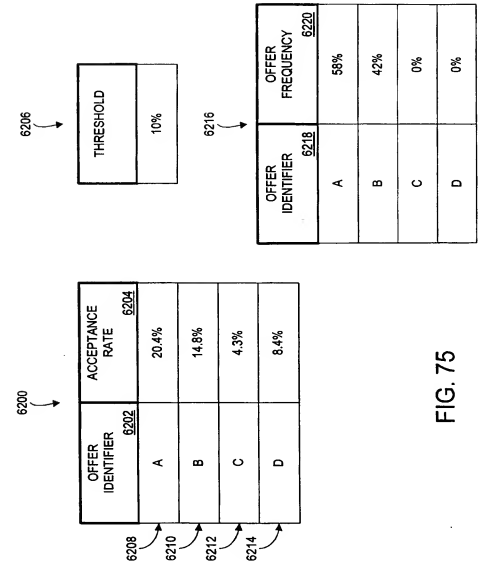

6200
OFFER IDENTIFIER 6202
ACCEPTANCE RATE 6204
6208
A
20.4%
6210
B
14.8%
6212
C
4.3%
6214
D
8.4%
6206
THRESHOLD
10%
6216
OFFER IDENTIFIER 6218
OFFER FREQUENCY 6220
A
58%
B
42%
C
0%
D
0%

FIG. 75

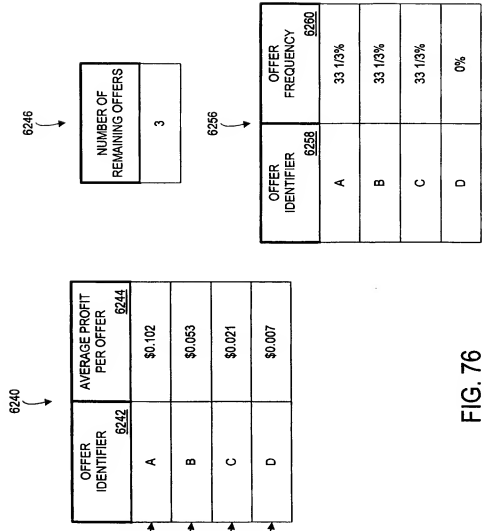

6240
OFFER IDENTIFIER 6242
AVERAGE PROFIT PER OFFER 6244
6248
A
$0.102
6250
B
$0.053
6252
C
$0.021
6254
D
$0.007
6246
NUMBER OF REMAINING OFFERS
3
6256
OFFER IDENTIFIER 6258
OFFER FREQUENCY 6260
A
33 1/3%
B
33 1/3%
C
33 1/3%
D
0%

FIG. 76

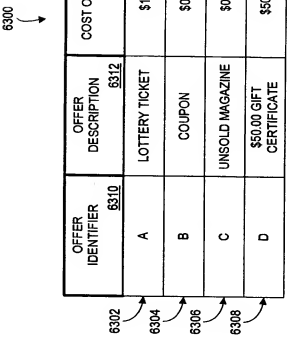

6300
6302
6304
6306
6308
OFFER IDENTIFIER 6310
OFFER DESCRIPTION 6312
COST OF OFFER 6314
OFFER FREQUENCY 6316
FREQUENCY FIXED 6318
A
LOTTERY TICKET
$1.00
33%
NO
B
COUPON
$0.42
33%
NO
C
UNSOLD MAGAZINE
$0.52
33%
NO
D
$50.00 GIFT CERTIFICATE
$50.00
1%
YES

FIG. 77